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MAY 1984

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23 HOT TIPS ON WINNING
PHOTO CONTESTS

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- Bermuda Shipwrecks
- Don Foster's Cayman
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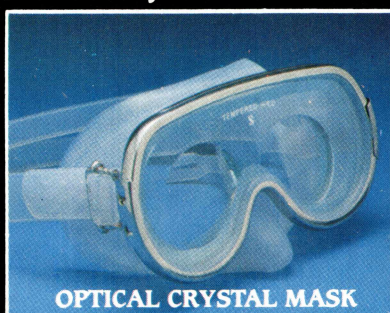
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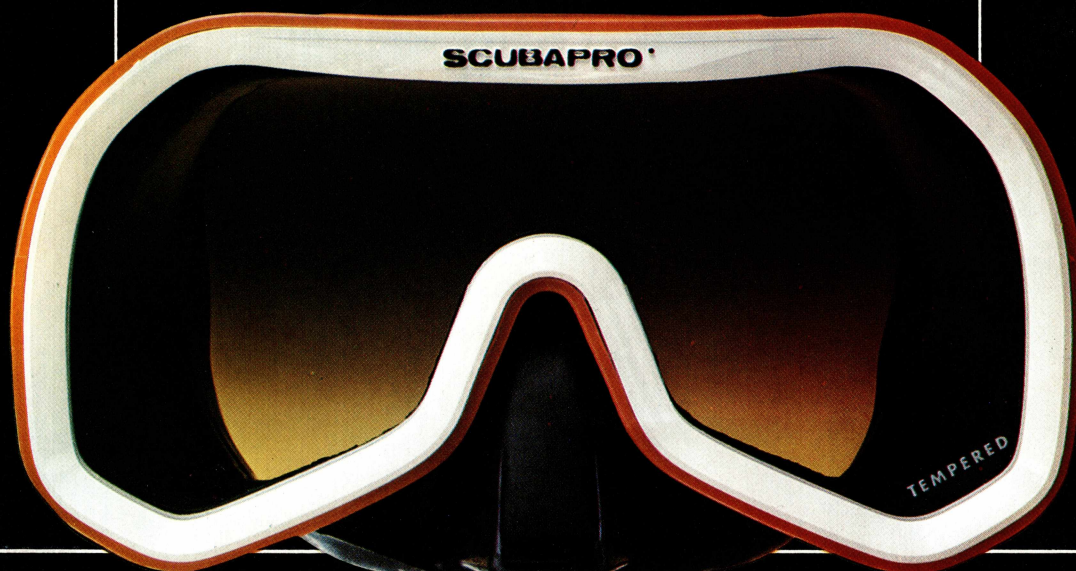
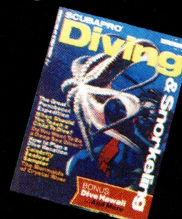
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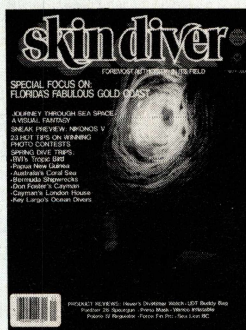
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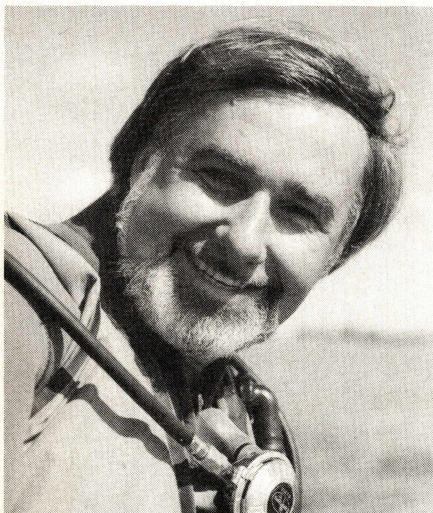
Through the magic of slide duplication underwater model Phyllis Cathey's image is superimposed on that of a backlit, red sponge. For more on this technique see page 40. Photo/Dickie Walls and Phyllis Cathey.



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SDM Editorial

BY THE PUBLISHER



DIVE TRAVEL IN AMERICA

to two diving trips outside their home states each year. This would indicate a remarkably high degree of mobility within our sport. Divers no longer seem satisfied or content with diving in their own backyards. The people in this sport have become better educated and more sophisticated. They seek a greater variety of diving experiences.

While 47 percent of the respondents make one or two out-of-state trips per year, 28 percent are more frequent travelers, making three to five trips per year. Another 11 percent make between six and nine trips per year. The most amazing factor is the discovery of the almost 14 percent who make 10 or more out-of-state dive trips annually. These are the super travelers.

As one might expect, the largest segment of interstate travelers go by car. This mode of transportation accounts for 50 percent of all out-of-state travelers.

The surprise revelation is that 27 percent of SDM readers make their out-of-state dive trips by airplane. This would indicate long range trips of 500 miles or more. Twelve percent of the respondents indicated travel by van and another five percent utilize campers.

Perhaps the most interesting aspects of the study concern what divers are looking for when they leave their home states. Fifty-five percent indicated clear waters were their most important consideration in selecting an out-of-state dive location. Fifteen percent were in search of live coral reefs. Twelve percent rate warm water as their number one consideration. Eleven percent are interested primarily in shipwrecks and six percent are looking for fish.

When quizzed on where they plan their future out-of-state trips, the SDM readers picked Florida by an overwhelming margin. This choice is in line with the desire for clear, warm water with coral reefs.

Sixty-five percent of the readers choose the Florida Keys as their destination for future trips. It should be noted that this extremely high ranking for the Keys

may have been influenced by SKIN DIVER's July 1983 Special Section on this area which had been published a month or two prior to the study.

Forty percent of the readers selected Florida as their primary destination. This would indicate a high interest for such areas as Palm Beach, Florida springs, Pompano Beach and Ft. Lauderdale.

Nineteen percent of the readers selected California as their first choice. This would probably account for divers living in the neighboring states of New Mexico, Arizona, Utah, Colorado and Oregon.

Eleven percent of the readers indicated the New England coastline as their primary choice. Thirteen percent choose the Great Lakes. Nine percent selected the mid-Atlantic states from New York to the Carolinas. Five percent indicated Washington as their primary destination.

The dive stores seem to be the biggest beneficiaries of this new trend. Shops that were content with sales in their local areas are now branching out into dive boat charters and other special services for out-of-state visitors. Dive stores are beginning to organize combination dive vacation packages with hotels and boat operators. They are advertising these programs and working with dive stores in neighboring states.

SKIN DIVER Magazine, which has been monitoring this trend for years, is now focusing its editorial attention on interstate travel as well as overseas travel. SDM has launched a series of special domestic travel articles in various areas of Florida, California and the mid-Atlantic states. The March issue contained a special article on the Palm Beach area, this issue has one on the Ft. Lauderdale area. June will cover the New York and New Jersey area; July will be devoted to the Florida Keys; August will feature Santa Barbara; November will cover Miami Metro and the December issue will cover the Florida springs.

The formation of a sub-industry is beginning to emerge in the area of domestic travel.

When this sport first began some 33 years ago, divers were highly territorial creatures. They learned scuba in the local pool and limited their diving activities to fairly tight boundaries around their home states. In those days, if you asked an Ohio diver why he kept diving in quarries and lakes his response would be, "That's all there is in Ohio."

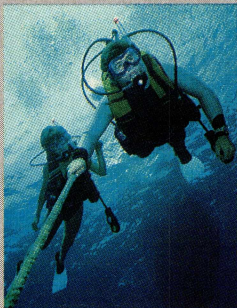
Times have changed, and today *mobility* is the key trend in the American sport diving scene: Travel has become the largest single interest and activity.

Dive travel really began to blossom with the development of tropical resorts in the Caribbean and Pacific. Locations such as Roatan, Bonaire and Cayman became household words among divers in the U.S. The romance and the adventure of tropical coral reef diving became irresistible. According to the most recent biannual Subscriber Study, almost 50 percent of SDM readers take at least one dive vacation outside the continental United States.

Ironically, the enthusiasm for dive travel has now come full circle and domestic dive locations within the U.S. are enjoying a booming prosperity. In fact, interstate travel for the purpose of diving is perhaps the largest and fastest growing segment of the travel phenomenon.

In late 1983 SDM conducted a 90 day study of its readers. The magazine collected a sampling of 9,256 Reader Service cards containing a mini-survey of five questions. It was the largest sampling for a survey of its kind and the tabulated results were impressive.

The study indicated that almost 84 percent of SDM's readers take at least one



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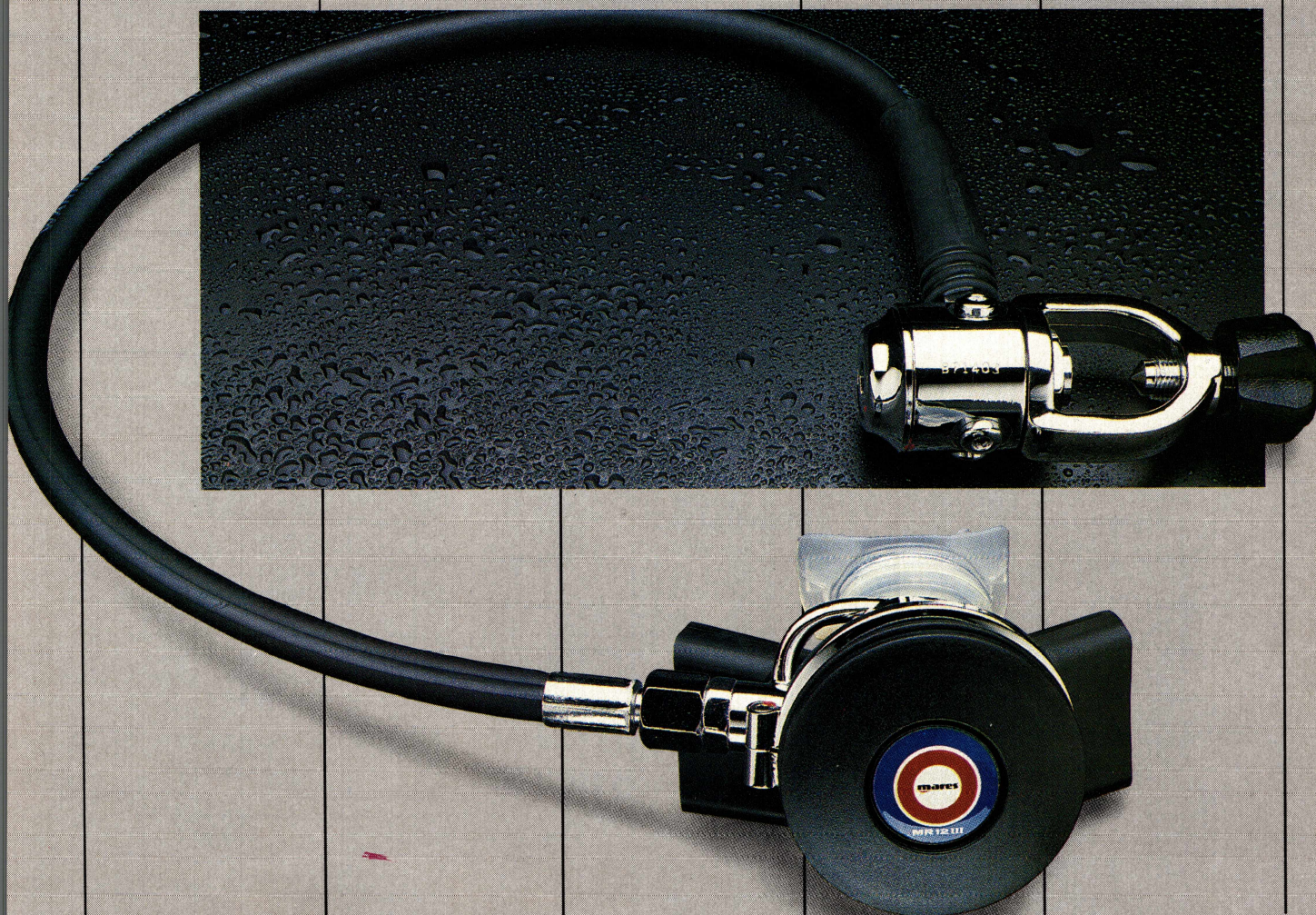
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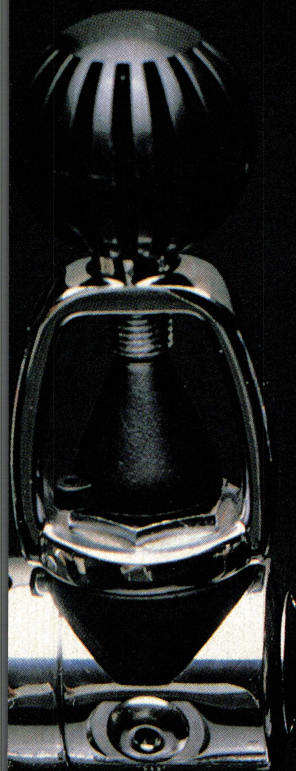
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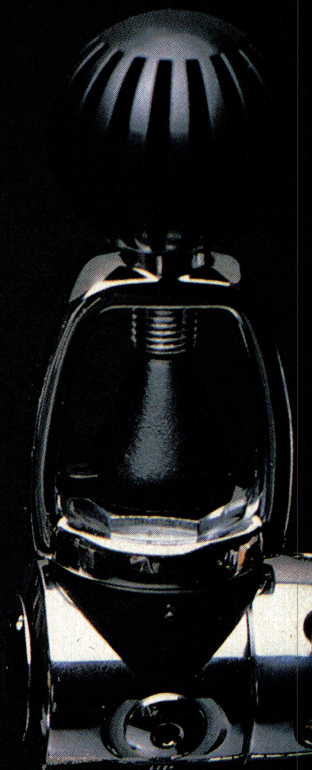
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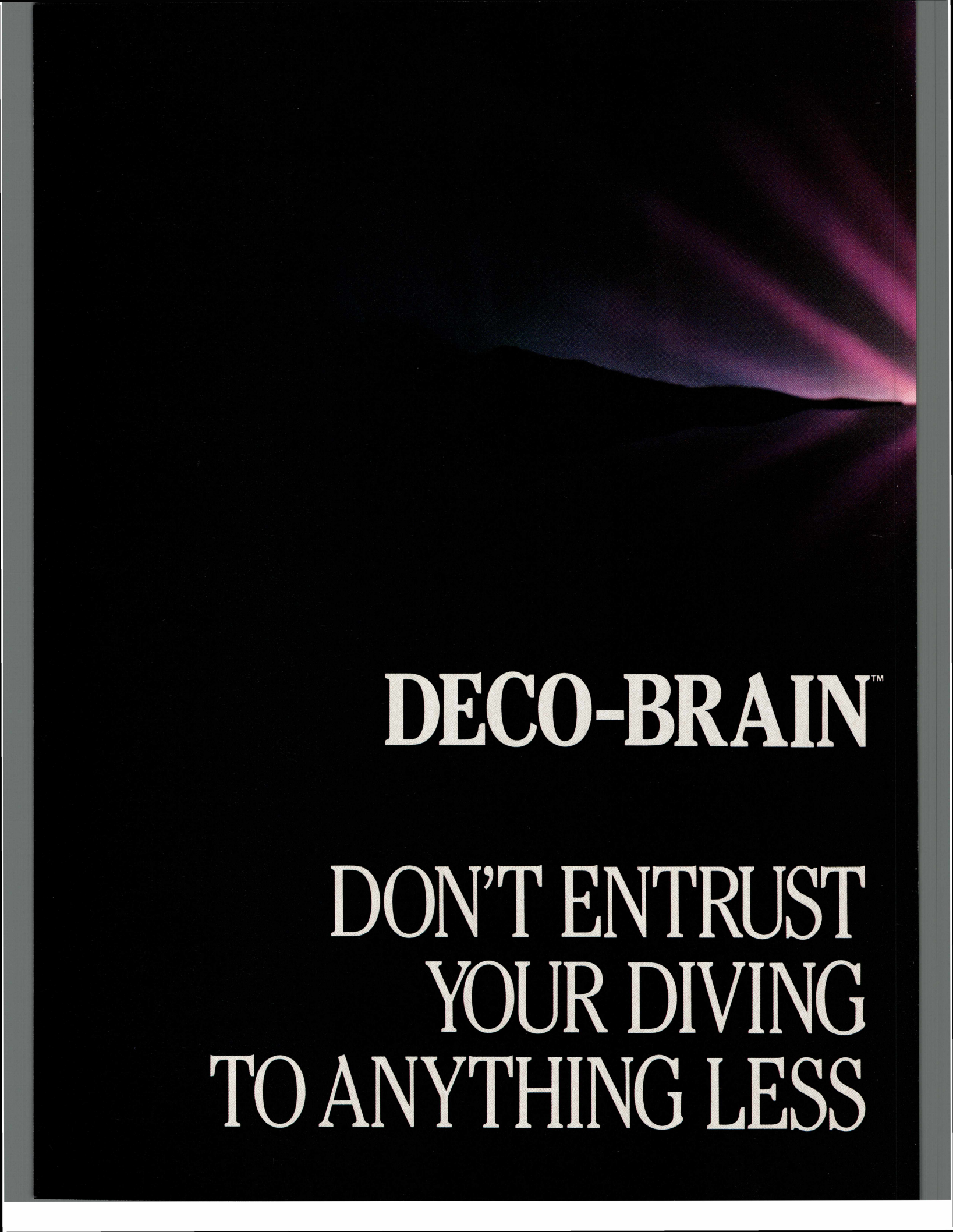
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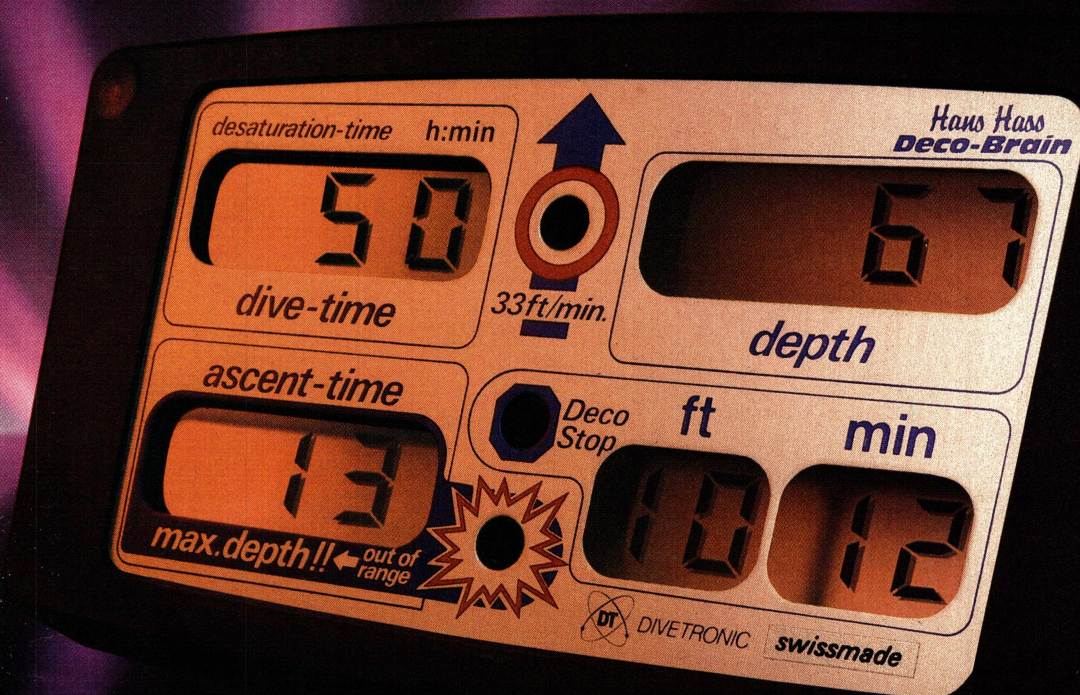
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Scuba Quiz

Category: Equipment Inspection

By Dennis Graver

An equipment problem can take the fun out of a dive. A broken strap or a stuck zipper can diminish enjoyment, and such problems are probably avoidable. Gear inspection should be an on-going task, however. At least once a year—usually before the season starts—a meticulous inspection is appropriate. This is the topic for this month's quiz.

List, for each item of equipment, four things to inspect on it. The steps should apply first to your own gear, but can also apply to equipment in common usage. For example, your tank may not have a boot, but something to inspect on a tank is possible corrosion under a boot. Make your list, then turn the page and compare your list with the suggested actions. Note: For one item there is only one action appropriate for an annual inspection.

1. Mask: _____

2. Snorkel: _____

3. Fins: _____

4. Exposure Suit: _____

5. Buoyancy Compensator: _____

6. Weightbelt: _____

7. Tank: _____

8. Backpack: _____

9. Regulator: _____

10. Instruments:
Depth Gauge _____
Watch _____
Compass _____
SPG _____

11. Knife: _____

12. Light: _____

Scuba Quiz

Answers: Equipment Inspection

1. Mask:

Inspect skirt for drying, cracking
Inspect strap for drying, cracking
Inspect purge for aging, function
Inspect retaining band for corrosion

2. Snorkel:

Inspect mouthpiece
Inspect junction or swivel
Check purge valve (if any)
Inspect keeper for cracking

3. Fins:

Inspect straps for cracking
Inspect strap buckles
Inspect foot pocket
Inspect blade

4. Exposure Suit:

Check seams
Check zippers
Check twistlocks (if any)
Inspect hood, boots, gloves

5. Buoyancy Compensator:

Check for leaks
Check straps for fraying
Check overpressure relief valve
Check CO₂ cartridge and operation

6. Weightbelt:

Check strap end for fraying
Check release for operation
Eliminate sharp edges
Check openness of weight slots

7. Tank:

Remove boot and inspect beneath
Check hydrostat and VIP dates
Check valve for smooth operation
General inspection for corrosion, gouges

8. Backpack:

Inspect straps for fraying
Inspect pack for cracking
Check tank retaining band
Check buckles for operation

9. Regulator:

Your regulator should be professionally inspected and serviced annually. This is the only correct action to take.

10. Instruments:

Depth Gauge: Have calibrated
Watch: Have cleaned and lubricated
Compass: Check operation of bezel
SPG: Have calibrated

11. Knife:

Sharpen (use file)
Inspect sheath for cracking
Inspect straps for cracking
Inspect locking device

12. Light:

Replace battery
Inspect switch
Inspect O-ring(s)
Inspect bulb for blackening

Now that you have reviewed all the things that should be inspected on your equipment, why not use your list and the suggested actions as a checklist and conduct a thorough inspection of your gear? It will certainly be worth the effort and may prevent frustration at some later date.

While you are at it, make sure all of your equipment is clearly marked and the serial numbers of items have been recorded. You might also take the opportunity to consider upgrading or replacing some of your gear. Technology has produced many improvements recently.

Finally, let me suggest you also inventory your spare parts kit and replace any items which have been depleted. Such a kit can help save a dive.

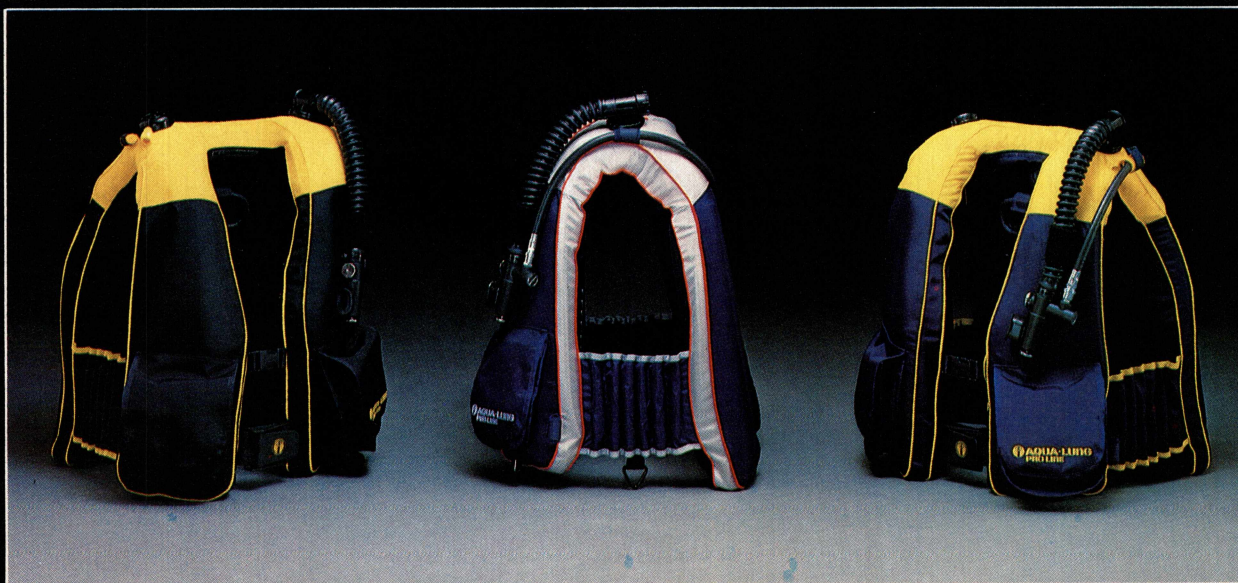
Take good care of your equipment and it will take care of you. Have a wonderful, problem-free diving season.

P.S. As long as you are inspecting the equipment and having it ser-

viced, here are a few minor improvements you might consider making. Comfort and convenience will result if you will:

1. Add an extra second stage to your regulator (octopus)
2. Add strain reliefs to all hoses on your regulator
3. Add a low pressure inflator system to your buoyancy compensator
4. Add a console to eliminate gauges on your arms
5. Replace neoprene mouthpiece on regulator with a silicone one
6. Add "keepers" or retainers to your weights to prevent them from slipping on the belt
7. Make the buckle for your tank open in the opposite direction from that of your weightbelt buckle
8. Wrap electrical tape around your tank, twice, just above the backpack band, to mark the height for the pack and to prevent the tank from slipping through the band

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Off-Shore has taken the time to design a drysuit that works for you. What wears out first on your suit, the knee pads? The traditional square knee pad doesn't always line up with the knee and protect the suit. We designed the new "Wraparound Double Knee" to protect the entire knee and the entire lower leg, both front and back.

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Bruce D. Spangrud
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President

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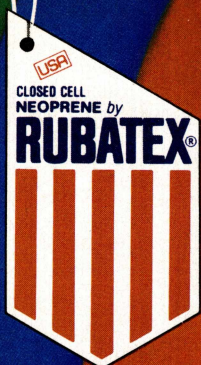
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Diver's Calendar

May 4-6 Our World-Underwater, Chicago, IL. (Contact: Leroy Winbush (312) 527-4478)

May 5 Princeton Scuba Club's yearly equipment auction at the Firehouse, Princeton Junction, NJ. Bring unwanted gear marked with a minimum bid. (Contact: K. Lasley, 306 Alexander St., Princeton, NJ 08540; (609) 924-4240)

May 12 Sea '84, The Underwater Photographic Society, Northern California 20th Annual International Underwater Film Festival and Photographic Competition. (Contact: UPS (415) 465-6400)

May 12 and 19 Search and Recovery Seminar for fire and police personnel in the state of West Virginia. Conducted by the Gauley River Volunteer Fire Department. (Contact: Captain William McCormick (304) 768-1495)

May 16-27 World Underwater Photo Competition, Aqaba, Jordan. (Contact: Salvo Cacciola, President, Nautilus Club Roma, Assoc. Internaz. del Mare, Via Solone, 2 00124, Roma, Italy)

May 18-20 Fourth Annual U/W Search & Recovery Seminar, at the Hilton Hotel in Cincinnati, OH. Sponsored by the Hamilton Co. Police Assoc. (Contact: Spec. Alvin Gille, c/o Deer Park Police Dept., 4250 Matson Ave., Cincinnati, OH 45236; (513) 791-8056)

May 19 Fourth Annual Carp Shoot, sponsored by the Dolphin Divers of Sacramento and Camanche North Shore Resort, at Lake Camanche. (Contact: Dolphin Divers, P.O. Box 254480, #162, Sacramento, CA 95825)

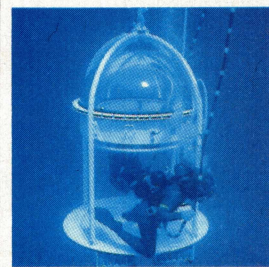
May 20 Annual Divers' Swapmeet sponsored by Southeastern Connecticut Skin Divers, at Montville American Polish Club, Maple Ave., Montville, CT. (Contact: Bill Little, 41 Forest Ave., Mystic, CT 06355; (203) 572-0097)

May 20-26 International Society of Aquatic Medicine Annual Meeting at the Pineapple Beach Hotel, St. Thomas, U.S.V.I. (Contact: Michael Rosco, M.D., 1127 Wilshire Blvd., Suite 809, Los Angeles, CA 90017)

May 28 Smith Diving's Annual Treasure Dive at Square Lake in Minnesota. (Contact: Bob Bailey, 2835 Central Ave., N.E. Minneapolis, Minnesota 55418; (612) 789-3720)

June 9-10 Aqua-Nut Divers Fourth Annual Treasure Hunt at Blue Springs in Waldron, IN. Prizes, film festival, photo contest, hog roast and night dive. (Contact: Joe Chambers, Aqua-Nut Divers, R.R. 1, Box 153-C, Clinton, IN; (317) 832-9930)

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Photos by LARRY CUSHMAN

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AQUANAUTICS

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Film Festivals 'n Symposiums

HUPS FESTIVAL

Stephen Frink will highlight the Houston Underwater Photographic Society's festival, June 9-10 at the Hyatt Regency Hotel, Houston, Texas. Featured in the film festival, Frink's multi-media slide presentations will chronicle exotic diving locales around the world as well as those in his own backyard, the reefs of the Florida Keys.

In conjunction with the HUPS festival, Frink will host a two day, intensive, underwater photography seminar. Topics will include macro and wide angle photography, creative lighting, fish photography, portraiture and modeling, equipment and marketing, as well as tips on how to create your own slide shows and the use of multiple projector dissolve systems. Participants are invited to bring samples of their own work for a personal critique.

Frink will also do the final judging for the HUPS 1984 Photo Competition. Categories will be: color prints, amateur; macro/close-up slides, amateur; mid-range to wide angle slides, open; macro/close-up slides, open; mid-range to wide angle slides; and surface slides. As well as first, second and third prizes in these six categories, Stephen Frink will select an overall best of show. The awards will be designed by Robert L. Straight of Sea Symbols. The contest is open to everyone.

For more information on the HUPS festival, the U/W photography seminar or a photo contest entry form, please contact HUPS, P.O. Box 270056, Houston, Texas 77277. 🐠

REFRESHED IN JUNE

The April issue of SDM featured a news release on the YMCA's Dive Refreshed campaign. The timing of the campaign has been changed to coincide with national media coverage featuring Lloyd Bridges as spokesperson. The Dive Refreshed campaign is now scheduled to begin in June. Call your local YMCA about the free, one day scuba refresher course. 🐠

WORLD UNDERWATER PHOTO COMPETITION

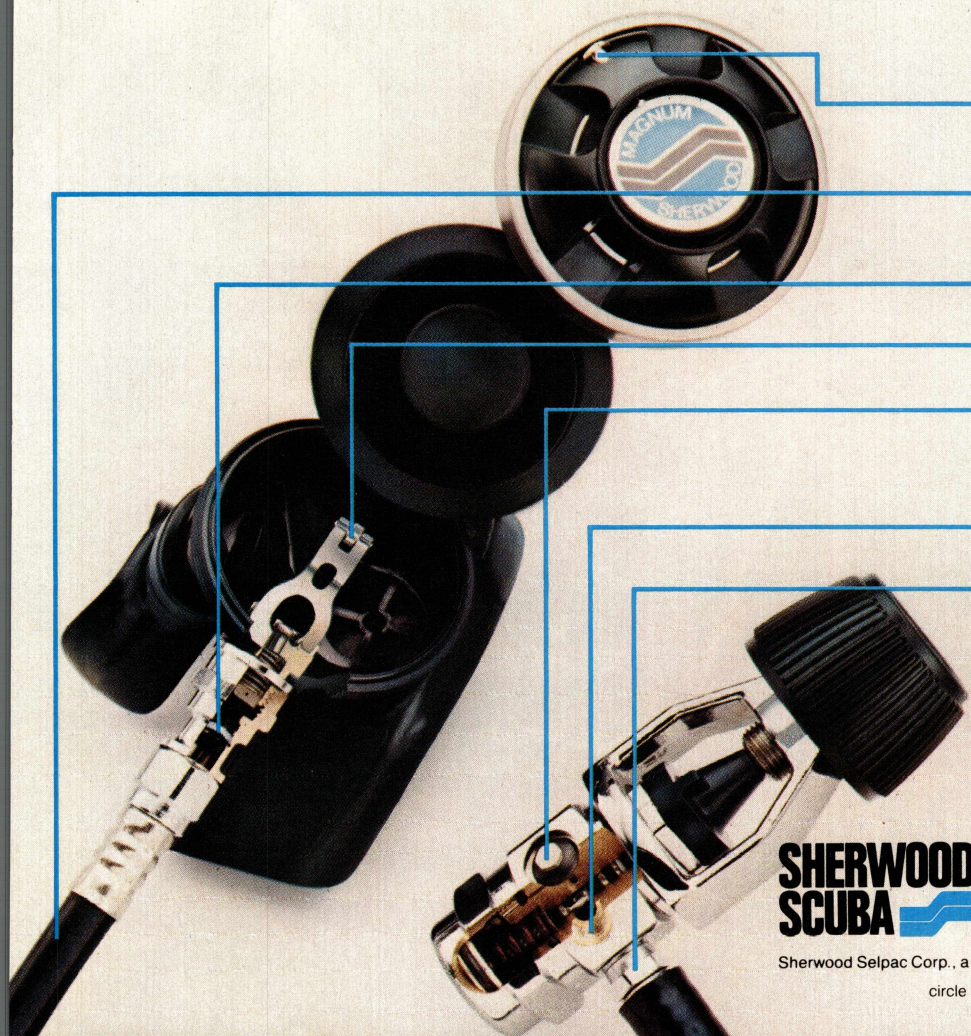
The Nautilus Club Roma, International Sea Diving Association, with strong support from King Hussein of Jordan, UNICEF and WWF Italia, Mondo Sommerso Magazine, and FIAS Italian Underwater Federation, is organizing the first world Extempore Amateur Photography Competition—International Blue Aqaba—in Aqaba, Jordan May 16-27.

For information contact Salvo Cacciola, President, Nautilus Club Roma, Assoc. Internaz. del Mare, Via Solone, 2 00124, Roma, Italy. 🐠

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SS-296

COLLEGE OF OCEANEERING

Ten Indian students were recently accepted for diver training by College of Oceaneering. According to Jim Joiner, president of the college, "This is one of many groups from overseas that have been sent to our facility over the years. Our parent company, Oceaneering International Inc., has 34 offices in 17 countries and is heavily involved in providing U/W contract services on a worldwide basis." ❧

AMDS COURSES

Alaska Mining and Diving Supply, a SSI training facility, offers instructor training, 18 levels of diver education, CPR, first aid and CPR instructor training. With the recent ITC, AMDS now has a staff of 19 instructors. AMDS also offers special training procedures in the use of drysuits.

For information contact: Ron Mickle, Training Standards & Safety, Alaska Mining & Diving, 3222 Commercial Dr., Anchorage, AK 99513. ❧

TRASH 'N TREASURE DIVE

The Second Annual Trash 'n Treasure Dive, sponsored by the Atlantean Under-

water Society will be held at Lake Tenkiller, Vian, OK June 16. Winners of trips and equipment will be announced at the cookout on Saturday night. For information contact: Don Morgan (405) 722-2877 or 6229 Kingsbridge, Oklahoma City, OK 73132. ❧

SCUBAPRO TRAVEL PROGRAM

WestAire Travel & Tours is now offering a diving travel service. Marketed through the Scubapro dealer network, it will allow individuals to travel at low group rates and will expand the variety of the Dealers' Travel Program. ❧

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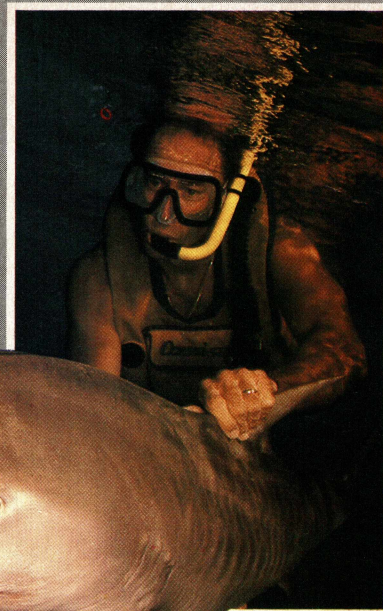
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Technifacts

BY E.R. CROSS



The basic purpose of this column is to stimulate an interest in the technical aspects of diving and dive safety. It will be devoted to providing factual answers to questions from SKIN DIVER readers. For comments and questions used in this month's Technifacts I would like to thank William H. Stockham III, Nashville, TN; Randy V. Jackson, Fort Wayne, IN; Ray Roussy, Surrey, B.C., Canada; and John Ankor, Chicago, IL.

MORE ON MAGNETIC COMPASSES

In December 1983 and January 1984 Technifacts discussed the background and uses of magnetic compasses as a tool to assist in sport diving safety. A

Technifacts reader wrote, "Unless magnetic variation works in reverse underwater your rule of east/west variation is incorrect. I was taught to compensate for east/west variation by the rule, 'East is least (-), west is best (+)'. In further study of magnetic north you'll find it near Prince of Wales Island in Canada."

The reference to magnetic error in a compass was to the Technifacts for December, 1983. In the January issue of SDM Technifacts I pointed out, and I would like to emphasize this point, that very rarely will a diver have to swim a course or take a bearing with such accuracy that the variation and deviation of the diving compass is critical. The value of a compass to a diver is to swim a reason-

ably accurate course by the compass being carried, irrespective of any error in that compass. Any compass error changes so slightly that it is not an important consideration to the problem of transecting a line from point A to point B.

However, to clarify the problem of easterly or westerly error in a compass I offer the following explanation:

If a magnetic influence, such as the magnetic north pole, is located on the easterly side of 0° north (true north) the compass' north seeking needle will be pulled to the right or in a clockwise direction and smaller numbers will appear opposite the lubber line. Conversely, if the magnetic object is west of true north the

(Continued on Page 39)

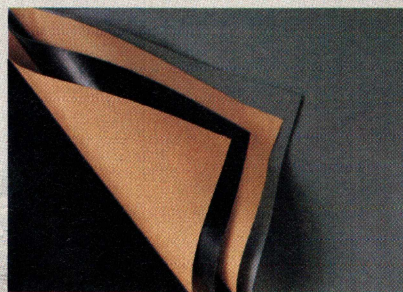
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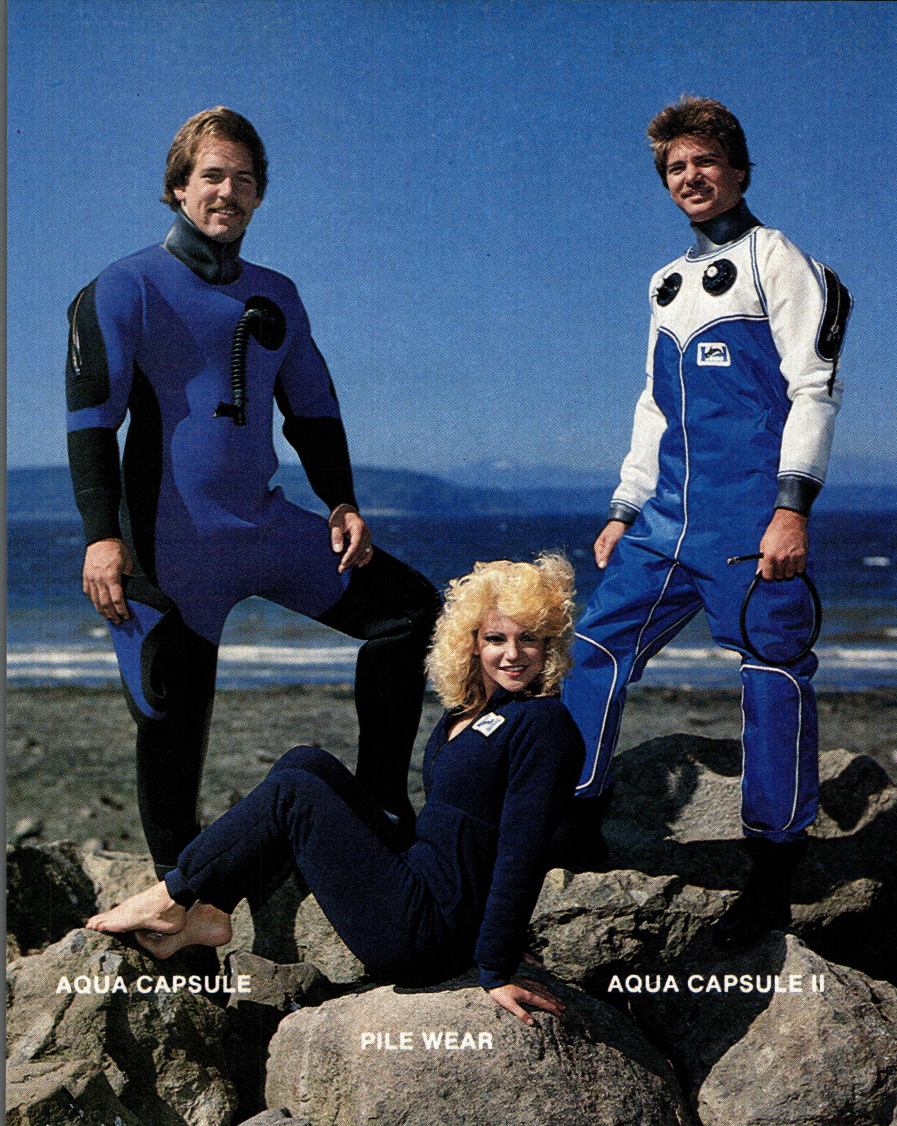


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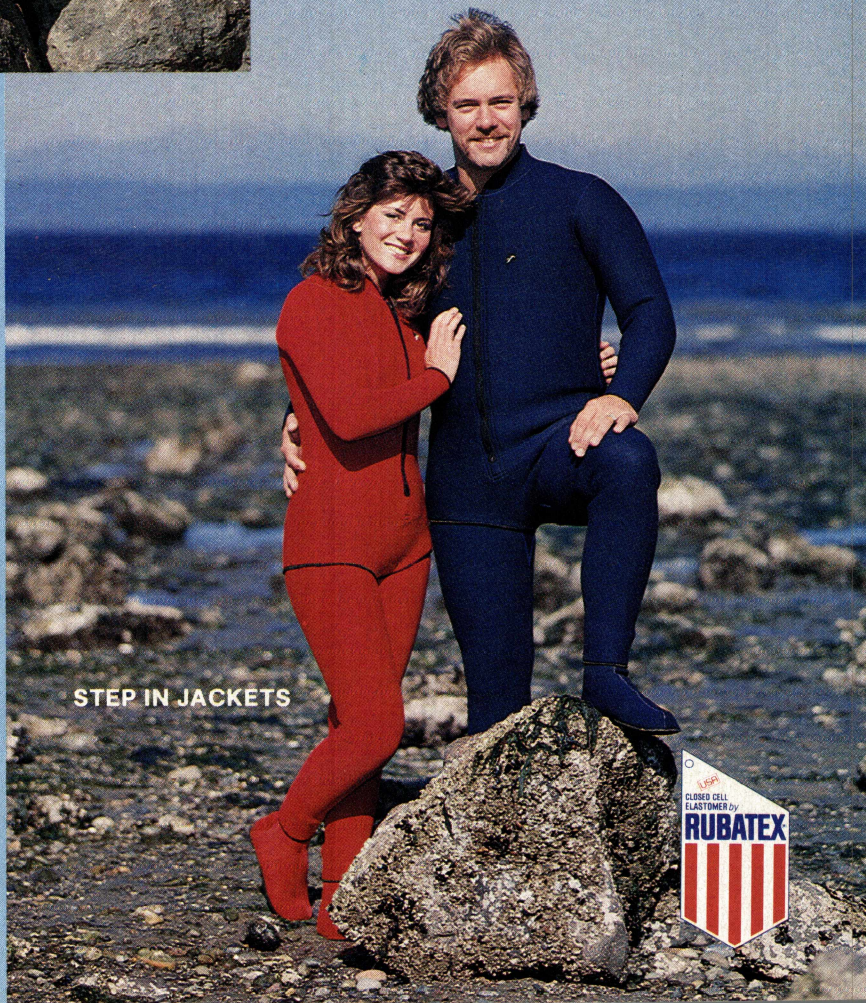
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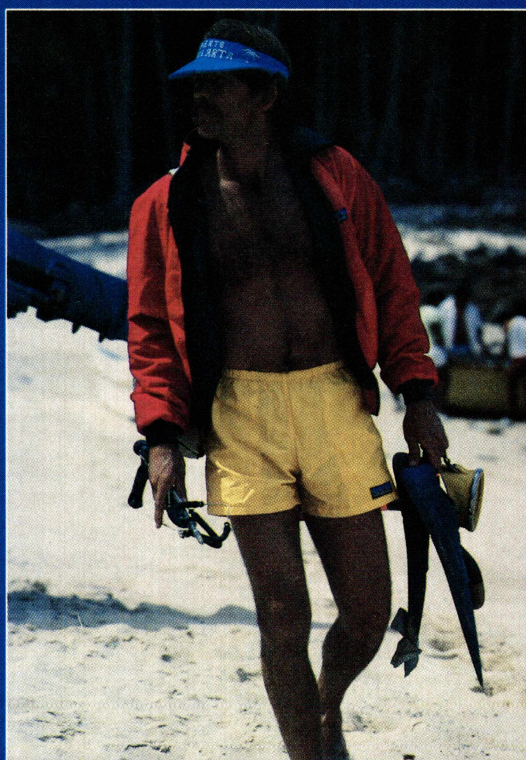


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MORE THUNDERER

The discovery of the remains of a British war ship which vanished 203 years ago was announced recently in the Cayman Islands. The shipwreck was tentatively identified as the HMS *Thunderer*, which disappeared in a Caribbean hurricane in 1780.

"This could be the most significant discovery in the history of underwater archaeology," said the leader of the expedition, Capt. Herbert Humphreys, Jr. of Memphis, Tennessee. "It is the largest historical shipwreck ever found which has been untouched since it sank."

"We have taken an oath of secrecy," said Humphreys, who is also owner of the Holiday Inn Grand Cayman. He declined to divulge the location of the wreck. However, the archaeologist, Dan Kaski-Karell said that "It is in international waters, but shallow enough to permit [scuba] diving."

AQUA-NUT TREASURE HUNT

The Aqua-Nut Divers' Fourth Annual Treasure Hunt will be held June 9-10. The location has been switched from Horseshoe Lakes Campground to Blue Springs in Waldron, Indiana.

The event has been expanded this year and includes an underwater film festival and photo competition on Saturday followed by a hog roast and a night dive. The treasure hunt will occur on Sunday. There are hundreds of dollars in prizes including an underwater movie camera from Helix.

For more information contact Aqua-Nut Divers, R.R. 1, Box 153-C, Clinton, IN 47842; (317) 832-9930.

DSI PROMOTION

Steve Barsky has been promoted to marketing manager at Diving Systems International. At headquarters in Santa Barbara, Barsky is responsible for supporting DSI's dealer network worldwide. With 33 dealers in 13 countries, Diving Systems is the world's largest manufacturer of helmets and bandmasks for military, scientific and commercial diving.

PELICAN VP

Michael M. Cooper has been appointed vice-president of corporate sales and marketing for Pelican Products. Cooper was formerly director of marketing for D.O. Industries and national manager of Fuji Photo Film U.S.A. He will temporarily reside in New York and head the eastern marketing group until the completion of Pelican's new corporate headquarters and manufacturing facility in Torrance, California.

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Dive with CUDA's unique convertible BC in front (above) or back position (inset photo).



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Rx

FOR DIVERS

BY FRED BOVE, M.D., PH.D.

Ear squeeze is the most common diving related illness. All divers eventually have some ear problem. External infections, sometimes called swimmer's ear, are not owing to diving itself, but occur when water gets into the ear canal and remains long enough to allow bacteria and fungi to grow. This is best prevented by making an effort to get the water out of your ear canal. Tilt your head sideways and pull on your ear lobe or shake your head. Prevention of external infections is best done by using Otic Domeboro solution—a few drops in each ear before and after water exposure are adequate.

Clearing your ears requires another consideration. The problem here is that you cannot get the eustachian tubes open to allow air to enter the middle ear and equalize the pressure across the eardrum. Be sure there is no congestion in your nose or throat when you dive, then begin clearing your ears before you descend and continue to clear every foot or two as you go down. Waiting for an ear to hurt before you try to clear is a bad habit and usually results in you being unable to clear. You are obliged to ascend, clear again then try another descent.

CONSEQUENCES OF SQUEEZE

Middle ear squeeze produces swelling of the lining of the middle ear and eustachian tube plus fluid accumulation in the middle ear. Often the fluid will not clear until the swelling has subsided and normal eustachian tube function returns. This frequently requires five or six days and occasionally one or two weeks. The presence of other factors such as nasal allergy or irritation from smoking can prolong the recovery period. With middle ear fluid accumulation, sound is not transmitted properly to the inner ear, but it still responds to noises which are present in the head and are usually masked by outside

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Dr. Ted E. DeLaca,
Marine Microbiologist

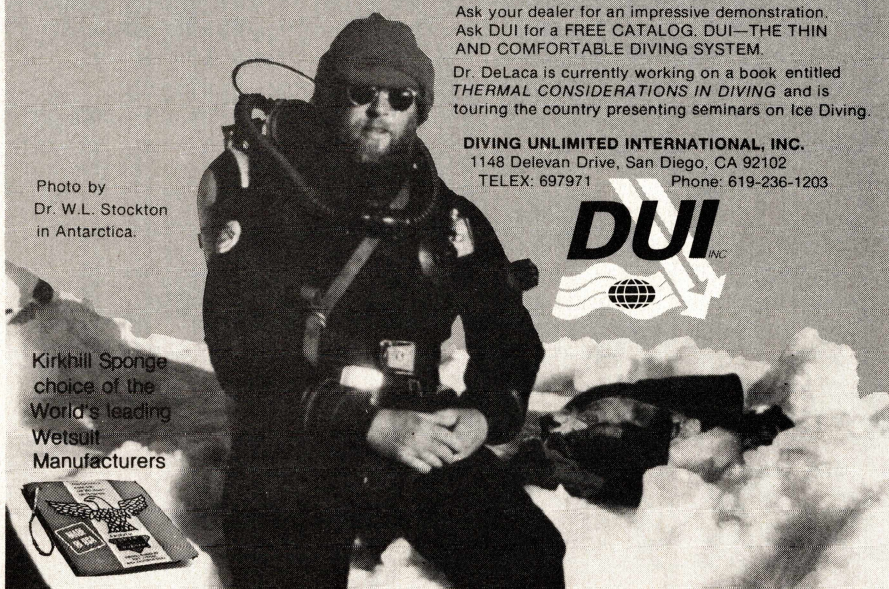
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Dr. DeLaca is currently working on a book entitled *THERMAL CONSIDERATIONS IN DIVING* and is touring the country presenting seminars on Ice Diving.

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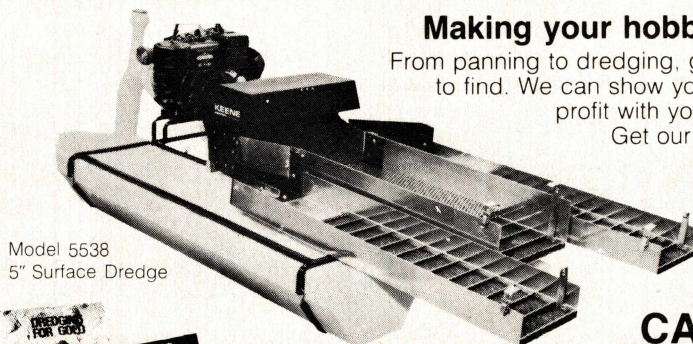
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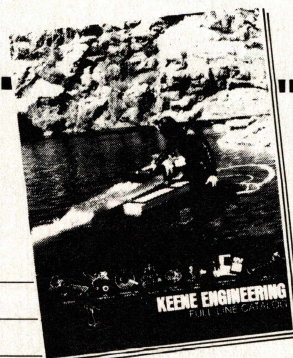


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Rx FOR DIVERS

sounds. Thus, an occasional hiss or buzzing noise can be heard. Hissing or buzzing sounds following an ear squeeze can represent middle ear or inner ear injury. If these sounds are not accompanied by other ear symptoms suggesting inner ear injury—such as vertigo or hearing loss—are not loud or are intermittent, these symptoms are probably related to middle ear squeeze.

As mentioned above, ear squeeze should be avoided by adequately clearing the ears every foot or two during descent. Once a squeeze is present, medical attention should be sought. Most middle ear squeeze can be successfully treated with medication, but you should not return to diving until the ear is completely clear. If you have frequent problems with ear clearing during diving or if the squeeze does not clear within ten days, you should consult an ENT physician. If hearing loss, vertigo, dizziness or loud roaring or ringing noises are present, you should seek prompt treatment with a physician specializing in ENT (Ear, Nose and Throat).

PERFORATED EARDRUMS

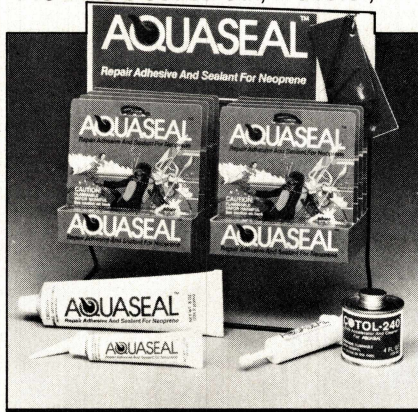
You should not dive with a perforated eardrum. Sometimes cold water entering the middle ear through one will upset your balance mechanism located next to the middle ear and cause sudden vertigo, dizziness or even vomiting. None of these things are conducive to safe diving. Also, when there is a hole in your eardrum, water will enter the middle ear, cause an infection and eventually, with repeated damage, result in hearing problems. However, most eardrum perforations caused by diving are not permanent. First you must let the perforation close and heal before resuming diving. If you rupture an eardrum while diving, you should see a physician, get treatment to prevent ear infection and wait for healing to occur. You may be unable to dive for three to four weeks, but with proper care, the drum will heal. After an examination by your doctor, you should be able to dive again.

Chronic eardrum perforations usually occur when there is poor eustachian tube function. Unless the tube functions adequately, the eardrum perforation will not heal. Frequently, poor eustachian tube function is related to chronic nasal or sinus disease. Individuals who have a permanent eardrum perforation should consult an ENT specialist. They should not dive until any identifiable causes of poor eustachian tube function have been adequately treated and the eardrum perforation has been repaired. All divers need to be aware that nondiving related chronic middle ear disease indicates the presence of poor eustachian tube function, if this occurs in the absence of significant atmospheric pressure changes. Such in-

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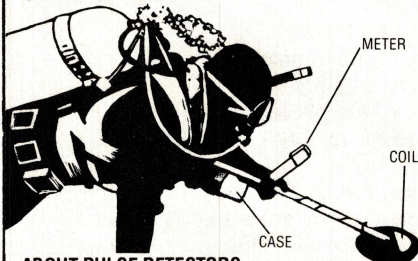
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dividuals are definitely more likely to exhibit inadequate eustachian tube function and middle or possible inner ear barotrauma when exposed to the atmospheric changes encountered in diving.

If you have perforated an eardrum while diving, you should promptly seek medical help to be sure it heals properly. If the drum does not heal, you should see an ENT specialist. All divers should take care to properly clear their ears during descent. Eardrum perforations while diving, owing to inadequate middle ear pressure equalization during descent, are preventable. Such occurrences indicate an unsafe diving technique, specifically, a descent rate that is too fast with inadequate attention to middle ear clearing.

ROUND WINDOW RUPTURE

This is an infrequent problem but one that does occur and is more difficult to deal with than a simple middle ear squeeze. Inner ear barotrauma during sport diving has been related to inadequate middle ear clearing with the development of a negative middle ear pressure during descent. This can lead to rupture of membranes within the inner ear or of the round or oval windows, membranes which normally seal the inner ear fluid from the middle ear. With such rupture, fluid leaks from the inner ear into the middle ear. Round window rupture is more likely to occur if the diver strains or tries to do a forceful valsalva maneuver to clear the ears while at depth. Round or oval window rupture is accompanied by nausea, vomiting, vertigo, hearing loss and noise in the ear. One or all of these symptoms may be present and are frequently noted during ascent or immediately after surfacing from relatively shallow dives not involving staged decompression. Vertigo with possible nausea and vomiting can be life-threatening while at depth. Occasionally, the diver may not notice ear squeeze during the dive. If an ear examination is delayed for five to seven days, signs of middle ear barotrauma may have subsided with the window rupture persisting. If a window rupture is suspected, removal of the diver from the water, bedrest with head elevation, and prompt ENT consultation should be sought. Surgery may be needed to repair the damage.

Another type of diving inner ear injury is inner ear decompression sickness. This is more commonly seen during deep, mixed gas diving, but can be noted during sport diving. Symptoms similar to those described above for inner ear barotrauma or round window rupture are noted. Any diver who notes the onset of such symptoms during or after decompression from dives requiring staged decompression or from dives close to or beyond the no decompression limits should be considered as having possible inner ear decompression sickness. A div-

(Continued on Page 128)

Break tradition. Drink Ronrico Gold Rum instead.

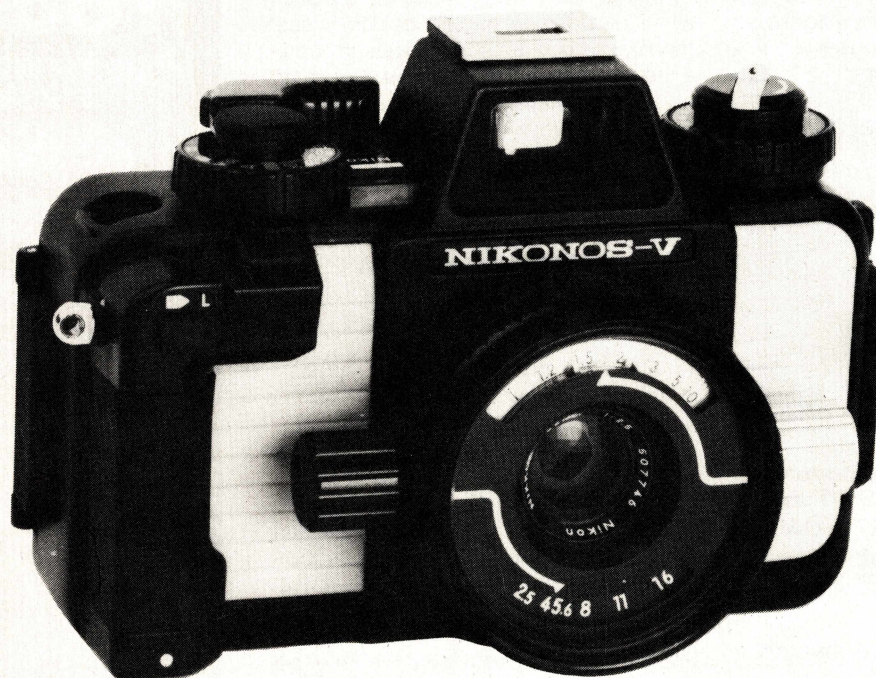
RONRICO GOLD RUM & ORANGE JUICE

2 ozs. of Ronrico Gold Rum in a highball glass; ice cubes; fill with orange juice, add a slice of orange.



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RONRICO GOLD RUM



A Sneak Preview Of The Underwater Camera Of The Future

By Geri Murphy

Nikon has just introduced a brand new underwater camera called the Nikonos V. Although the exterior looks similar to the current Nikonos IV-A, the new V is an entirely different camera. It could be described as a giant step forward in the evolutionary progress of the Nikonos series. This newest model combines the best features of the Nikonos III and Nikonos IV-A, plus a few added high-tech twists.

To a loyal Nikonos fan (and owners of models II, III, and IV-A) such as myself, the new features of the Nikonos V are most intriguing. Let's take a quick look at the changes and additions.

The most noticeable feature of the Nikonos V is its wide range of shutter speed selections. At last we have a Nikonos that can be set on fully automatic or switched to individual shutter speed settings. Exposure control has been put back into the hands of the photographer. The Nikonos V offers three distinctly different modes of shutter operation. All three are clearly marked on the control knob at the top of the camera.

The yellow A setting provides fully automatic exposure shutter setting. In this mode, the camera's internal lightmeter sensor reads the amount of light striking the film plane and transmits the data to the camera's computer brain. This selects precisely the right shutter speed to match the incoming light. The electronic, stepless shutter can select any speed from 1/30 to 1/1000 second.

The second and most exciting mode of the Nikonos V shutter control is a range of six manually selectable shutter speeds—1/30, 1/60, 1/125, 1/250, 1/500 and 1/1000 second. These settings are extremely precise because they are also quartz timed electronic shutter operations. This is a tremendous improvement over the old Nikonos III mechanical shutter.

The third mode is the M90 setting which is a mechanical shutter speed of 1/90 second. It is a handy backup in case the battery goes dead. The M90 will allow electronic flash synchronization for strobe shots.

Another unique feature of the Nikonos V which ties in with shutter speed control is the new Exposure Data Display. This device can be seen in the bottom portion of the camera's viewfinder. Light Emitting Diodes (LEDs) display bright, glowing red numbers which correspond to the various selectable shutter speeds. For example, a solidly illuminated number 60 indicates the shutter speed is set on 1/60 second.

The Exposure Data Display will also indicate the matching shutter speed for a perfect exposure. A blinking LED

NIKONOS-V

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Rugged Data Pro diving instruments are available in one-, two-, or three-gauge configurations. All are protected by impact resistant, thermoplastic housings that safely tolerate temperatures between +10°F and +160°F. A 30° console angle makes for easy reading and protects lenses against scratching if console is laid face down. (Shown are Data Pro 2 with depth & cylinder-pressure gauges, and Data Pro 3 with added compass.)

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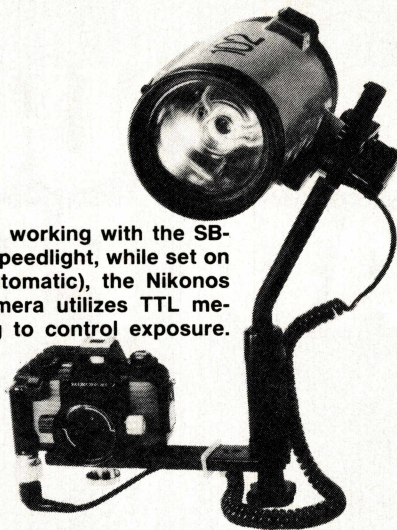
NIKONOS V

number 125 would indicate the correct exposure combination of 1/125 second for the f stop chosen.

The display also indicates an overexposure warning and an electronic flash ready light. The photographer can achieve a very high degree of exposure control by utilizing this new Exposure Data Display.

One of the most significant high-tech additions to the Nikonos V is the automatic through-the-lens flash control. A special internal flash sensor measures the light (from the flash) being reflected directly off the film plane and instantaneously determines the duration of the flash for precisely the right amount of

When working with the SB-102 Speedlight, while set on A (automatic), the Nikonos V camera utilizes TTL metering to control exposure.



light. The Nikonos V is the only underwater camera in the world equipped with TTL flash control. Perfectly exposed flash photos can be taken with any Nikonos lens, including macro tubes or the Nikonos Close-Up Kit.

Here is another twist—the TTL flash output control will synchronize with all shutter speed settings. At manual settings of 1/125, 1/500, or 1/1000 second, the TTL flash output control will override the shutter speed setting and reduce it to 1/90 second if the flash is turned on. The photographer can also balance flash output with ambient light for a perfect sunlight/flash exposure. This new TTL circuitry is designed to be compatible with Nikon's new underwater electronic flash, the SB-102.

And, speaking of flash systems for the
(Continued on Page 36)

NIKONOS V

Type of Camera	Electronically controlled 35 mm amphibious focal plane shutter camera
Construction	Body made of die-cast copper silumin oxidized aluminum alloy; all joints sealed by O-ring gaskets to ensure absolute watertightness; camera able to withstand pressures to 160 feet
Picture Format	24 mm X 36 mm (standard 35 mm format)
Usable Film	Standard 35 mm cartridge-type film
Lens Mount	Nikonos bayonet mount
Usable Lenses	Nikonos 15 mm amphibious lens Nikonos 28 mm amphibious lens Nikonos 28 mm surface lens Nikonos 35 mm amphibious lens Nikonos 80 mm amphibious lens
Viewfinder	Inverted Galilean type Albada finder built into camera for use with standard 35 mm lens; film frame marks show approximately 85 percent of picture coverage at infinity; 0.55X magnification; diopter 0.9; long eye relief allows viewing with eye 40 mm away from finder; parallax correction marks provided; optical viewfinders or frame finders available for Nikonos lenses; fixed eye level pentaprism type
Shutter	Electronically controlled vertical-travel, metal focal plane type
Shutter Speeds	A (auto), electronically controlled stepless speeds from 1/30 to 1/1000 second M (manual), quartz-controlled speeds from 1/30 to 1/1000 second; M90 (mechanical), mechanically controlled at 1/90 second; B (bulb), mechanical setting for long exposures
Shutter Release	Button at top of anatomical grip; initial pressure on button switches on meter; shutter release lock included
Exposure Meter Switch	Meter turned on when shutter release button is depressed; meter stays on for approximately 16 seconds after finger is lifted off button
Exposure Control	Two exposure control modes: A (automatic aperture-priority) and M (manual) mode
Exposure Metering	Through-the-lens (TTL) light intensity feedback metering; TTL flash metering with Nikon SB-102 Speedlight
Metering Range	EV 8 to EV 19 at ASA 100 with f/2.8 lens (from 1/30 second at f/2.8 to 1/1000 second at f/22)
Film Speed	ASA/ISO 25 to 1600

Flash Metering

TTL flash metering possible with Nikonos SB-102 Speedlight

Light Sensors

Two silicon photodiodes (SPDs); one for exposure metering, the other for TTL flash metering

Accessory Shoe Flash Synchronization

Built onto top of viewfinder
X-sync only via flash socket in camera base; synchronizes at 1/90 second or slower; with Nikonos Speedlight SB-102, shutter speed automatically switches to 1/90 second when shutter speed/mode selector dial is at A or at 1/125 second or higher in manual mode; at 1/60 second or slower on manual, shutter fires at speed set

Flash Ready Light

Thunderbolt-shaped LED in viewfinder lights when Nikonos SB-102 Speedlight has recycled; blinks to warn of insufficient light output, improper shutter speed/mode selector dial setting, and film speed setting beyond ASA/ISO 400

Film Advance Lever

Wound in single stroke or series of strokes; when shutter speed/mode selector dial is at A, shutter releases at approx. 1/500 second until film frame counter reaches frame 1

Frame Counter

Additive type; advance one frame with each complete stroke of film advance lever whether film is loaded or not; resets when camera back is opened

Film Rewind

Manual via film rewind crank after shutter speed/mode selector dial is set to R (rewind); shutter release button is automatically locked

Camera Back

Hinged type with locking pin; opened and locked via lock/release latch and release button

Pressure Plate

Hinged type, attached to camera body; locking catch provided

Tripod Socket

Located at base plate of camera body; standard 1/4 inch

Power Source

One three volt lithium battery (CR 1/3 type), two 1.55 volt silver-oxide batteries (SR-44 type) or 1.5 volt alkaline-manganese battery (LR-44 type)

Battery Check

When shutter speed/mode selector dial is at any setting except M90, B or R and frame counter is at or beyond 1, viewfinder LED lights indicating proper battery installation and sufficient battery power when shutter release button is depressed

Body Finish

Black with signal orange or black with camouflage green

Body Dimensions

Approximately 5 3/4 x 3 7/8 x 2 1/4 inches (146 x 99 x 58 mm)

Weight

Approximately 24 ounces (without lens)



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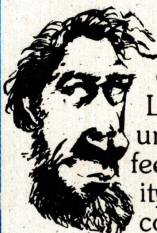
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NIKONOS V

(Continued from Page 32)

Nikonos V, there is good news: The new SB-102 is a highly sophisticated electronic flash that will work on automatic or synch with the manual speeds. It has a larger diameter reflector, a new and more versatile flash arm and a right angle cable connector for the camera. While the Nikonos V has a new five pin flash connection to accommodate additional wiring for TTL mode and exposure data feedback, two of these pins are spring loaded. Thus, the Nikonos V is compatible with existing three pin flash connectors designed for the Nikonos III and IV-A. However, strobes designed for use with these cameras will not function in the automatic mode when used with the Nikonos V.

A noticeable improvement in the Nikonos V is the design of the back door. It is still hinged, but is now fitted with a bore seal O-ring for more water-tight integrity. Another very much welcomed feature is the design of the back door latch. It has been greatly simplified and a clearly marked orange button provides a fail-safe locking arrangement.

The Nikonos V accepts all of the lenses designed for the Nikonos IV-A, but a new twist has been added. An additional 28 mm f 2.8 "dry" lens has been added to

the Nikonos line. This is specifically made for land use and will produce wire-sharp photos. The addition of this surface lens



O-ring (top), mode selection, door lock.



The locking system for the shutter button.

greatly extends the versatility of the Nikonos V. Incidentally, the surface lens is waterproof against spray or rain, but is not pressureproof for underwater use.

Other minor changes on the Nikonos V include: color panels on the front and back of the camera (available in either orange or moss green); a slightly angled shutter release button for a more comfortable hand grip; and an improved frame counter which displays black numbers on a silver background.

Once again Nikon has captured the limelight with a camera innovation that will set the pace for future underwater photographic equipment. Accessory manufacturers are already racing to the drawing boards in an effort to design items which will be compatible with the Nikonos V. Old camera pros will be eager to compare the features of this new machine with their favorite camera. Newcomers aspiring to shoot great pictures will no doubt find the Nikonos V a helpful tool for far better exposures.

How well does it really perform? It is too early to say since the SDM editors have not yet had an opportunity to put the Nikonos V through its paces. However, the first look at this new machine is certainly very promising.

For more information and a color brochure on the Nikonos V, write to: Nikon Inc., 623 Stewart Avenue, New York, NY 11530.

Photos/courtesy Nikon, Inc.

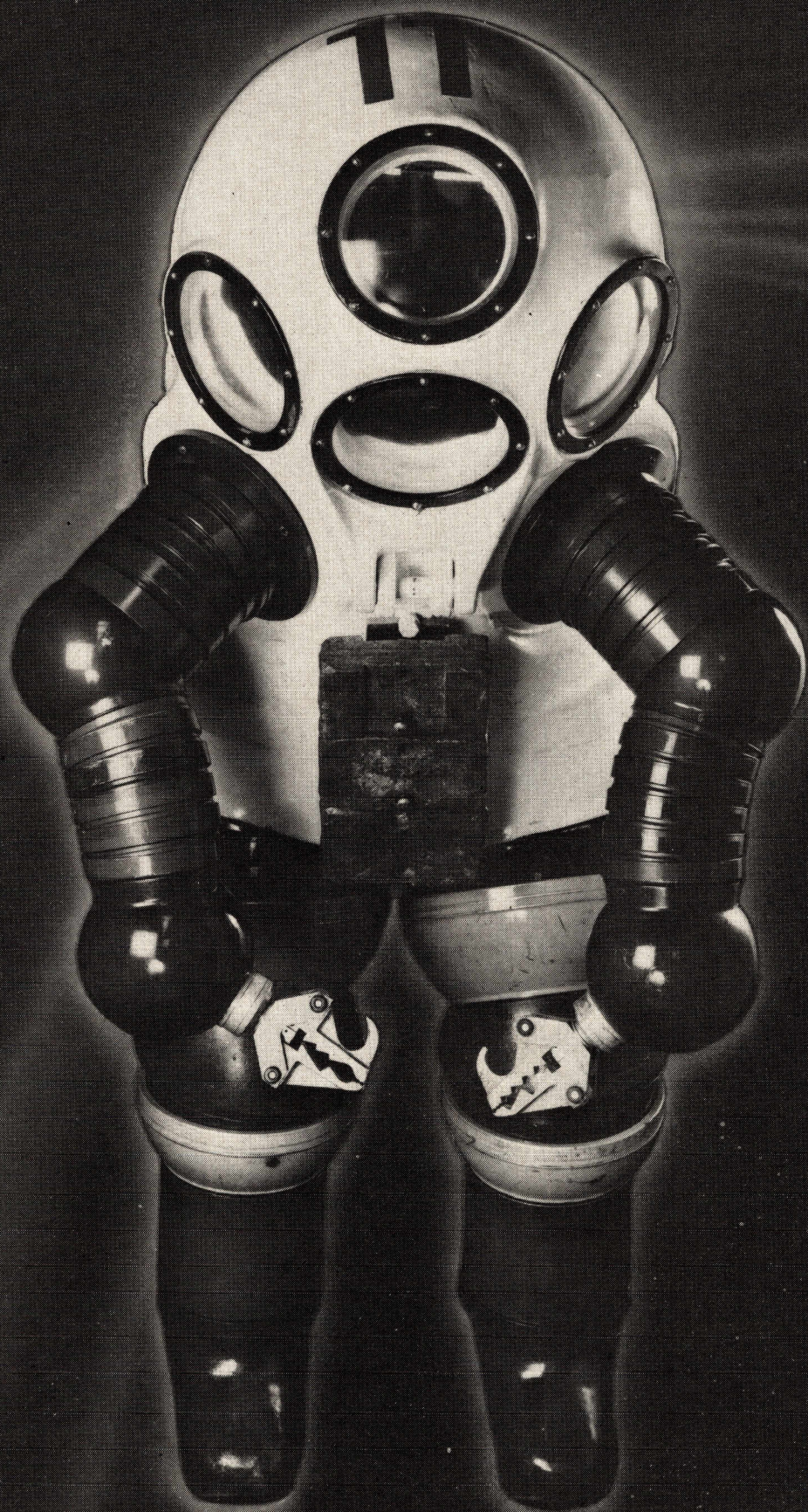
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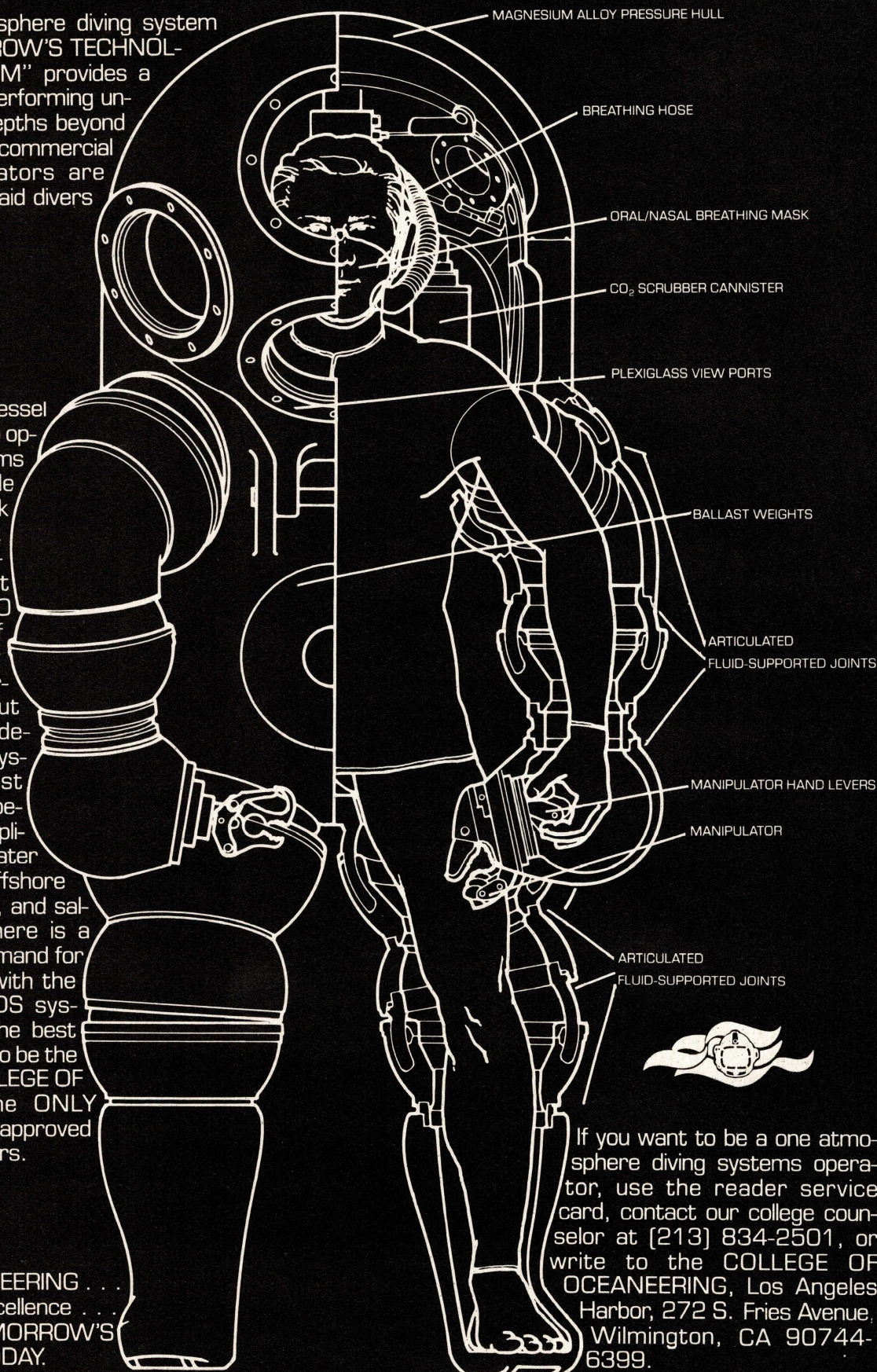


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Explore Your Future In Depth

TECHNIFACTS

(Continued from Page 22)

rotation is counterclockwise and larger numbers are brought in line with the lubber line.

It is at this point that confusion sometimes develops in the use of thumb rules, i.e., "East is least and west is best." Or, to cite another adage that appears to conflict with the above: "Add east, subtract west to find true." These are not conflicting rules but they are confusing.

The first statement describes a correction to be applied to a *true* bearing or direction to find a *magnetic* compass bearing or heading when the compass error is known.

Conversely, if a compass error is easterly, the compass reading at the lubber line is too low. Easterly error must be added (add easterly, subtract westerly error) if the *true* direction is to be determined. One thumb rule (the first) applies when correcting from true to compass; the other when correcting from compass to true.

Now forget the whole thing and use your magnetic compass as discussed in Technifacts for December 1983 and January 1984. Compasses can be an important aid to safe diving.

Here's one more small thing about the earth's magnetism and in reply to a comment in the reader's letter. At present the magnetic north pole is not very near Prince of Wales Island. It was at 74° north latitude, 103° west longitude (at Prince of Wales Island) about 1950. By 1970 the magnetic north pole had migrated to about 76° 10' north latitude and 101° west longitude; nearly 180 miles north of Prince of Wales Island. By now, in 1984, the magnetic north pole is probably at about 77° 70' north latitude. In case you are interested, the magnetic south pole was, in 1970, at 66° south latitude and 139° 10' east longitude or about 35 miles offshore (north) of the Adelie Coast of Antarctica. So much for magnetic trivia.

DIVER PROPULSION VEHICLES

Recently, Technifacts received a request for information about parts for, and information on, how to build a diver propulsion unit suitable for sport scuba diving. This information was covered to some extent in July 1980. However, some additional information is now available and the interest in the subject warrants a brief review of these helpful tools.

A manual, *How to Build DPV's*, was prepared by R.J. Roussy of Canada and is available from D.P.V., 10241 148th Street, Surrey, B.C., Canada V3R 6S4. The manual sold for \$8.75 plus \$1.00 postage in mid-1979. Interested readers

might want to write for availability and current price prior to ordering.

There are certain inherent hazards in the use of diver propulsion units not present in normal scuba diving. Divers intending to build and use a DPV should study the manual closely. Apply all the safety precautions applicable to regular scuba dives with emphasis on those suggested in the manual. The principal consideration for safe use is to realize that conditions can be made to change so quickly with a DPV that it may be difficult for a diver to adjust to those changes, particularly with reference to changes in pressure on and in the respiratory system and with reference to decompression schedules and times. Rate of ascent should not exceed that specified for the decompression schedule in use for the dive. Planning becomes even more important than in conventional diving exercises.

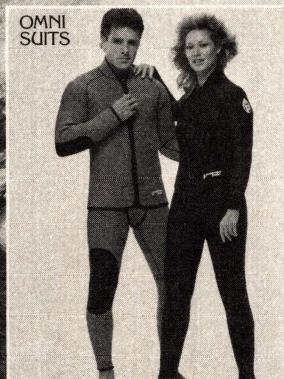
HYPERBARIC SYSTEMS

Information is frequently requested by individuals needing engineering data for the design of various types of hyperbaric systems. Particularly, interest seems to remain high for such information with respect to recompression/decompression chambers. "I am a senior in the School of Engineering at Vanderbilt University. Information is needed in my design project for recompression chambers, particu-

(Continued on Page 42)



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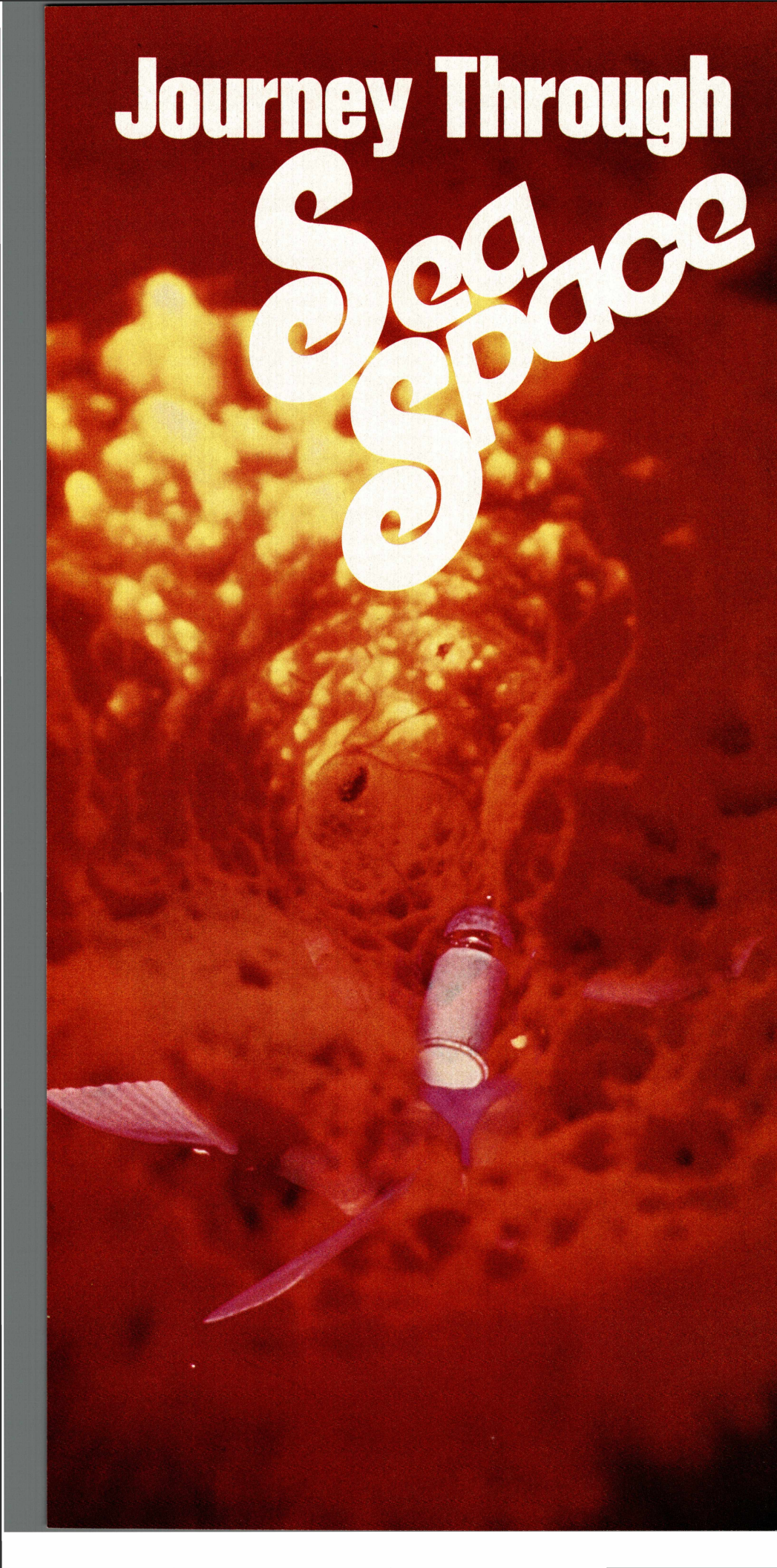
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Journey Through Sea Space

An Exciting Technique For Visual Fantasy

TEXT AND PHOTOGRAPHY
BY DICKIE WALLS
AND PHYLLIS CATHEY

Journey Through Sea Space is a multi-projector audio/visual presentation using innovative photographic techniques. It is a creation of imagination, with unconventional photography. The plot depicts Phyllis' psychic journey within the sea. Conventional photography is a terrific tool for showing the world as it is, but we wanted to project the undersea world as experienced in our minds. To create this new world we needed to manipulate reality as we saw it.

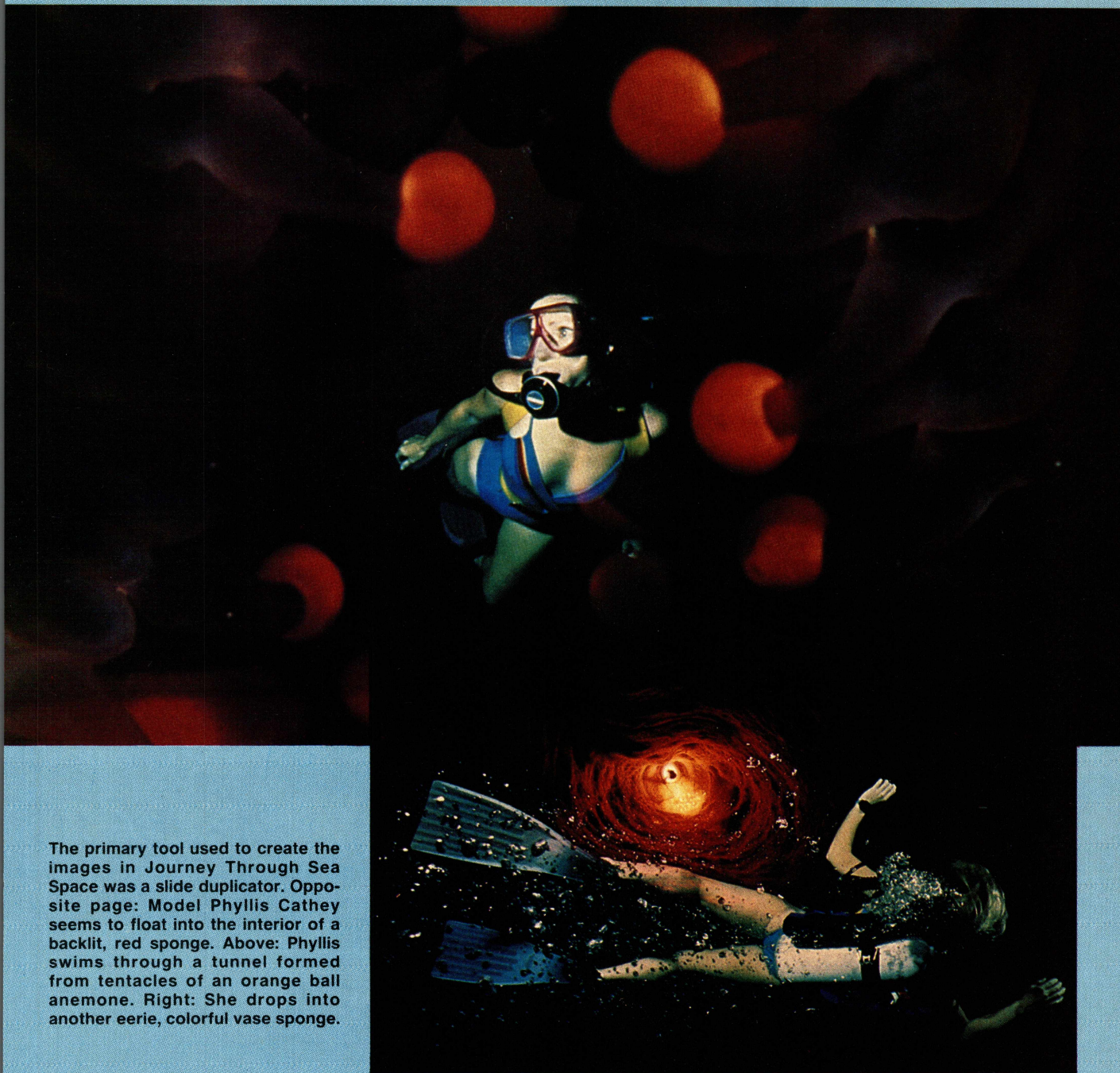
Our creation required a large amount of special effects photography, which we found to be a fascinating pastime of intense frustrations and immense rewards. Our primary tool for Journey Through Sea Space was a slide duplicator. It attaches to an SLR camera and may be used to copy, crop, tint, adjust exposure, convert slides to prints or double expose slides.

The double exposure feature makes the duplicator more than just an indispensable savior of marginal slides. By double exposing two images onto one slide, totally new art may be devised.

In our program we needed a transition from reality into the bizarre. We achieved this by first doing a special night shoot of Phyllis "falling" in deep water. We then superimposed these shots with photos of backlit vase sponges to create a series of convincing deceptions. We placed Phyllis in various precarious positions throughout her journey. The effect was convincing and has created considerable amazement among audiences.

Superimpositions work best when using shots with bright subjects on black for a minimum of overlapping background subjects. Masks are sometimes needed to crop unwanted portions from slides used for "supers." These are simply light-proof covers for slides with holes in them to allow exposure of selected portions. Many photographers use aluminum foil for masking, but it often reflects silver edges around the cuts. Kodak packages bulk film in a black plastic envelope which makes perfect masking material. Commercial masks are also available, but custom shapes are best made at home. The cropping feature of the duplicator places size perspective at the photographer's command. The two subjects superimposed together can be proportioned to fit the needs of the artist.

One of the best features of the slide duplicator is that it contains no O-rings and functions best when not underwater. Frustrated underwater photographers may while away their landlocked hours



The primary tool used to create the images in *Journey Through Sea Space* was a slide duplicator. Opposite page: Model Phyllis Cathey seems to float into the interior of a backlit, red sponge. Above: Phyllis swims through a tunnel formed from tentacles of an orange ball anemone. Right: She drops into another eerie, colorful vase sponge.

photographing outrageous new creations from their old files. Another benefit is that through cropping and exposure adjustment many slides that would have been thrown away may be converted into usable shots. Title slides may be created with the duplicator as well. Through double exposures, lettering may be superimposed onto almost any shot.

Many production problems commonly encountered during an audio/visual production may be answered by a duplicator. It is especially helpful where multiple projectors are used and a feeling of motion is created by zooming in or out on a single slide. By making such stepped

croppings, one slide can fill many uses. Duplicates also take the worry out of slide presentations. While the projectionist is spilling coffee on your slide show duplicates the originals are safe at home.

The technical aspects of duplicating are sometimes frustrating. Color filtration and correct exposure require practice and obtaining show quality dupes on a consistent basis requires dedication and perseverance that tax the creative soul. Just remember, unconventional photographs are captured by conventional equipment and if there are any short cuts, we don't know about them. Duplication is certainly less complex and troublesome

than learning underwater photography, so enjoy the results and tolerate the frustration. The duplicator is a formidable piece of hardware for creating alternate realities and can become an enjoyable way to spend many hours.

The results may be rewarding: Shots from the *Journey Through Sea Space* series won first, third and fourth place in the Houston Underwater Club's Sea Space 1983 international photo competition in the special effects category. The series generated a great deal of interest, and we have received numerous invitations to present the program at diving symposiums throughout the U.S. x

TECHNIFACTS

(Continued from Page 39)

larly with reference to heating, ventilation, and air conditioning system design used with such chambers. I would appreciate any references or information that you could provide on chamber manufacture, chamber facilities, chamber design, or chamber procedures and activities."

There are several publications dealing with the various subjects of hyperbaric facilities. Probably the best with reference to design information is *Subsea Manned Engineering* by Gerhard Haux and published by Best Publishing Company, P.O. Box 1978, San Pedro, California 90732. This book discusses almost all types of hyperbaric systems and goes into some detail of design criteria in most systems.

Another book dealing with the subject is *Man Beneath the Sea; A Review of Underwater Ocean Engineering* by Walter Penzias and M.W. Goodman. This book is published by Wiley-Interscience, a division of John Wiley and Sons, Inc., New York. This book deals more with submersible systems than with on-deck chambers. However, much of the design criteria would be pertinent.


A third major publication that deals with

the subject is *The Underwater Handbook, A Guide to Physiology and Performance for the Engineer*, edited by Charles W. Shilling, Margaret F. Werts, and Nancy R. Schandelmeier and published by Plenum Press, New York. This publication deals more with the physiology, environment, physical factors, psychological factors and performance of man under pressure but deals also to a considerable extent with operational safety factors of the diver with relation to the physiological and psychological effects of diving hazards that are likely to be encountered as a result of operating equipment, including hyperbaric systems and various types of diver propulsion vehicles. Perhaps a good way to compare this publication is to state that the previous two books will let the equipment be designed and constructed. The later book will tell the designer, and the diver, what might happen to the man in the water using the equipment.

Other publications that have some information on the subject include the *U.S. Navy Diving Manual, Part 2*. This publication has some good information on deep diving systems and on saturation diving. A small manual titled *U.S. Navy Air Decompression Table Handbook and Decompression Chamber Operator's Handbook* also contains some helpful information as does another volume titled *Hyperbaric Chambers, United States and Can-*

ada which lists the location of most chambers throughout the North American and Pacific areas. The first two of these publications are available from Best Publications at the address given above. The last volume is available from the Undersea Medical Society, 6950 Rockville Pike, Bethesda, MD 20814.

TECHNIFACTS FOR 1984

Starting with the June issue of *SKIN DIVER*, Technifacts will begin a series of discussions dealing with commercial diving disciplines and skills that a properly trained sport diver might be able to accomplish. Also, there is a trend in diving where company engineers and other managerial personnel have become trained as sport divers and very soon thereafter use their diving skills to reach underwater jobs they are either responsible for or are interested in from a professional point of view. The upcoming series of Technifacts should help them to understand the vast differences between topside and underwater work and permit a better understanding and application of what they see in their professional diving work. The first in the series will deal with the trend in the use of manned and unmanned vehicles and how they relate to commercial diving. Be with us to find out what divers are doing underwater and how they get there and back safely. 

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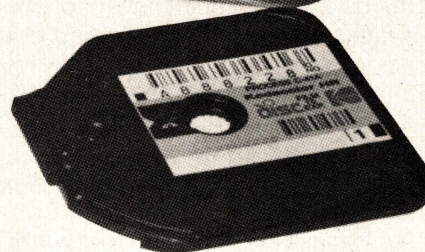
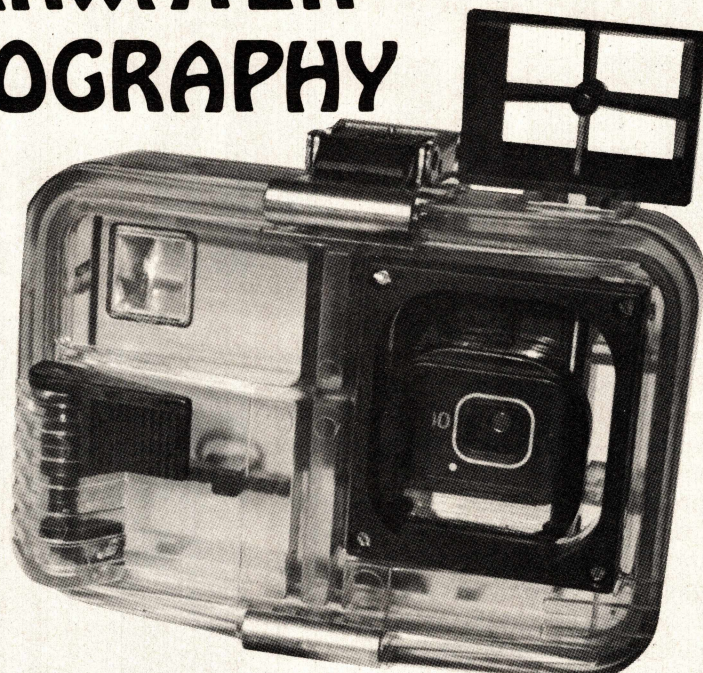
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photo/Darrel Hess

23 TIPS FROM THE PROS SHOW YOU HOW TO WIN YOUR NEXT PHOTO CONTEST

BY JIM AND CATHY CHURCH

Photo contest competition is getting tougher! With the improvements in equipment and instruction and the growing number of U/W photographers, winning today requires more than the ability to take a good picture. Winning requires skill in analyzing contests, selecting those you should enter and those pictures that have the greatest chance of winning.

✓ **Find the right contest.** Start by contacting the dive shops in your area. They can usually direct you to local contests and those sponsored by regional dive councils, UPS (Underwater Photographic Society) chapters and national certification agencies. Read the Diver's Calendar and Film Festivals 'n Symposiums in SDM each month for contest announcements. Also check the Scuba Chrome Journal and Helix Newsletter.

While an organization conducting a film festival may not be conducting a contest at present, it may in the future. Write and

ask. Don't depend entirely on the list of contests included in this article. It is a guide only, we can't be sure of every contest a year in advance.

✓ **Study the purpose of the contest.** If the contest is sponsored by an organization whose purpose is to promote interest in diving, pictures of happy divers safely enjoying the undersea world, possibly interacting with cuddly marine creatures, have a good chance of winning. If the sponsor's goals are to promote an awareness of the sea, seascapes and graceful marine life probably have a better chance of winning than diver portraits. If the contest is sponsored by an equipment manufacturer, he would naturally enjoy having his equipment somehow shown in, or identified with, the winning picture. In contests sponsored by U/W photo clubs, a picture with subtle lighting that makes an ordinary subject look special gains points.

✓ **What Rights must you give?** Most contest rules state that you grant the sponsor the right to reproduce entries so they can announce and show the winners and best entries in print. This is great as long as reproduction rights end there! If the rules state that the sponsor retains *All Rights* to your entries and ignore (or the fine print disclaims) any obligation to return your entries afterward, avoid entering. This is a sneaky way to collect pictures that the sponsor can use for free and sell to magazines and other publications for a profit. If, however, they pay you a royalty for the use of your photographs, it may be a good sale.

✓ **Know the value of the contest.** The value of the prizes, awards or recognition is a key consideration. If the potential rewards are high, it may be worthwhile sending your original color slides. If the rewards are low, consider sending dupli-

SDM U/W PHOTO CONTEST GUIDE

May 1984 to March 1985

(Details approximate: Write to contest sponsors for latest information.)

CONTEST/SPONSOR	ENTRY INFORMATION	CATEGORIES	PRIZES
MONTEREY BAY BEACH DIVE PHOTO COMPETITION c/o Cathy Cassenelle-Hess 16158 Yale Ave. San Lorenzo, CA 94580	Deadline 7/7-8/84 Film distributed day of event. Entry fee includes film, processing and dinner July 10. \$30 prereg. \$40 on site.	Novice, amateur, open, humor and topside. Macro, marine life & diver.	Best of show, plaques 1st, 2nd & 3rd. Several equipment prizes.
PACIFIC COAST U/W PHOTO COMPETITION P.O. Box 9259 San Diego, CA 92109	Deadline 8/7/84. \$25 fee incl. film, proc. and dinner. 35 mm slides, 4-5 hour time limit.	Novice, amateur, advanced. Macro, marine life, diver, humor.	Best of show, 1st, 2nd & 3rd each category. Prizes from several manufacturers of photo and dive equipment.
ONTARIO U/W COUNCIL PHOTO COMPETITION 1220 S. Sheppard Ave. E. Willowdale, Ontario Canada M2K 2X1	Entry deadline 9/84. Send SASE to CenCal P.O. Box 779 Daly City, CA 94017	Inquire	Inquire
PADI PHOTO SEARCH/COMP. 1243 E. Warner Ave. Santa Ana, CA 92705 Entry blanks: any participating PADI Training Facility	Runs 9/1 to 10/30/84 (annual). \$4 per entry. Mixed open and novice competition. Slides only: 110, 120 & 35 mm.	One category: open to either fresh or salt water.	Grand prize: Week dive vacation. Nine regional prizes: 16x20 color print. Publication of winners in SDM and PADI magazines.
UPS, LOS ANGELES CHAPTER c/o Dr. Gary D. Carlsen 17822 Beach Blvd. Suite 342 Huntington Beach, CA 92647	Entry deadline 10/15/84. Open and pro. competition. Color and b&w prints, slides, movie and video.	Wide range of categories; fresh and salt water.	1st place: \$100. 2nd place: Plaque. 3rd place: Plaque.
CEN CAL U/W PHOTO COMPETITION P.O. Box 779 Daly City, CA 94017	Entry deadline 10/26/84. B&W and color prints, 35 mm slides. Entry fees: Members, \$5; non-members, \$6.	Wide angle, macro, close-up, special effects, diving related above water.	Plaques for 1st, 2nd and 3rd in each category.
GREAT GLOBAL PHOTO CHALLENGE Cam-Gold Productions Inc. 11551 Pelican Court Richmond, British Columbia Canada V7E 3P3	Annual deadline usually 12/31. Slides, B&W and color prints, special effects prints, Super-8 and 16 mm movies, video.	Invertebrates, fish marine mammals, diver/environment, diver/wreck. Diver Mag. cover cat. for 35 mm.	Prizes from several major manufacturers of U/W photo and diving equipment.
CALIF. FISH & GAME PHOTO COMP. (Send SASE to CenCal for details) P.O. Box 779 Daly City, CA 94017	Deadline 12/31/84. B&W and color prints. Photos not returned; become property of Fish & Game.	Fish, invertebrates, bird, mammal, reptile & amphib., natural envir. and more.	Certificates of excellence and hon. mention. Photographer of the year award
BENEATH THE SEA PHOTO CONTEST P.O. Box 644 Rye, NY 10580	Annual deadline probably 3/85. Amateurs in N.E. U.S. B&W and color prints, 35 mm slides.	General: invertebrates, fish, divers, etc. Macro: 1:5 and smaller. Northern cold water: fresh or salt.	Numerous awards may include dive vacation and photo equipment.
SOUTH FLORIDA UPS 1141 N.E. 142nd St. N. Miami, Florida 33161	Entry deadline, probably 3/85. Two free entries per member, all others \$4 per entry.	Macro, close-up, wide angle, wreck and small format (less than 35 mm).	Prizes from various manufacturers of U/W photo and diving equipment.
INTERNATIONAL U/W PHOTOGRAPHIC COMPETITION c/o Maury Schlatter P.O. Box 9612 Berkeley, CA 94709	Entry deadline probably 3/85 or 4/85. Open and novice for 35 mm and 120 slides, Super-8 and 16 mm movies.	Vertebrates, creative and macro. Write for latest information. No distinction between fresh and salt water.	Best of show: \$150 and plaque. First three places: plaques.
U/W SOCIETY OF AMERICA INTERNATIONAL PHOTO COMP. 9702 E. 12th Street Indianapolis, IN 46229	Entry deadline probably 3/85 B&W prints, 110 prints, special effects prints, movies: 8 mm, Super-8, 16 mm, video	Fish, invertebrates, diver/environment, seascapes, wrecks	Prizes from several major manufacturers of U/W photo and diving equipment. Winners published in SDM.

When writing for information, always include SASE (self-addressed, stamped envelope).

cates. Likewise, are the rewards worth the potential damage your slides or color prints might suffer? No matter what anyone tells you, large color prints that are packaged, unpackaged, handled for judging, repackaged and unpackaged again, will suffer some damage, however slight. The more contests you enter, the more damage accumulates.

Study the judges. If possible, find out who the judges will be and check on their backgrounds. If a judge is a well-

known U/W photographer, whose published work shows an established preference—such as for wide angle scenics with a background diver, fish close-ups or action photos of divers and marine life—he/she may favor such pictures. Judges may also reward their favorite lighting techniques. Non-diving judges who are topside photographers often go for simple, colorful subjects they can identify. They often like the anemone, fish or kelp frond portrait that diving judges may see as being too ordinary for a win-

ner. Older non-diving judges, who teach topside photography, may look for the classical rules of composition, while younger judges may prefer something more surrealistic. A panel of judges with mixed backgrounds may disagree, sometimes bitterly, over the merits of different pictures. Therefore, send photos with a variety of styles.

Study the past winners.

Whenever possible, study winning pictures and try to determine why each placed as it did. Turning back to the 1982 PADI Photo Search Nationals in the September 1983 issue of SDM, the theme was "divers having fun." In six of the ten winning photos, divers were shown touching, looking at or other wise interacting with exciting marine creatures, such as octopus and fish. The rules clearly stated that preference would be given to a vertical format (for a PADI poster) and sure enough, a vertical shot took first place. In most of the pictures, photo technique appeared to be subordinate to subject.

In the USA (U/W Society of America) Photo Winners, published in the January 1984 issue of SDM, either subtle lighting technique or exciting subjects such as octopus, squid and seal were the winners. Think of the different purposes of PADI and USA when you analyze their winners. (Note: We will be referring to these contests again in other parts of this article, so take a moment to locate those past issues.)

Categorize carefully.

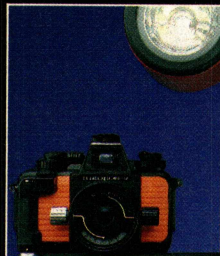
Some contests have categories such as wrecks, divers and invertebrates; others may have more mechanical categories such as wide angle, close-up or macro. Read the descriptions carefully and be sure to enter your pictures in the correct categories. We have seen excellent entries lose because they were not entered in the right category. If you can't decide between two categories for a single picture, consider entering it in both. This is easier with slides because you can enter two—one in each category. With color prints, this method may be too expensive. If time allows, write to the sponsor. Keep your letter short and include a self-addressed, stamped return envelope.

Don't depend on difficulty.

Many judges simply don't care how difficult it was for you to take the picture—their only concern is its visual impact! Therefore, if you have a picture of some rare creature that took great efforts to photograph, don't expect to be rewarded just because you worked hard or traveled far. The picture must have other attributes as well to win. The exceptions, however, would be if a judge had a special interest, such as marine biology, that attracts him/her to your special subject or, if degree of difficulty is listed as a criteria for judging.

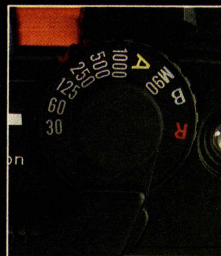
(Continued on Page 120)

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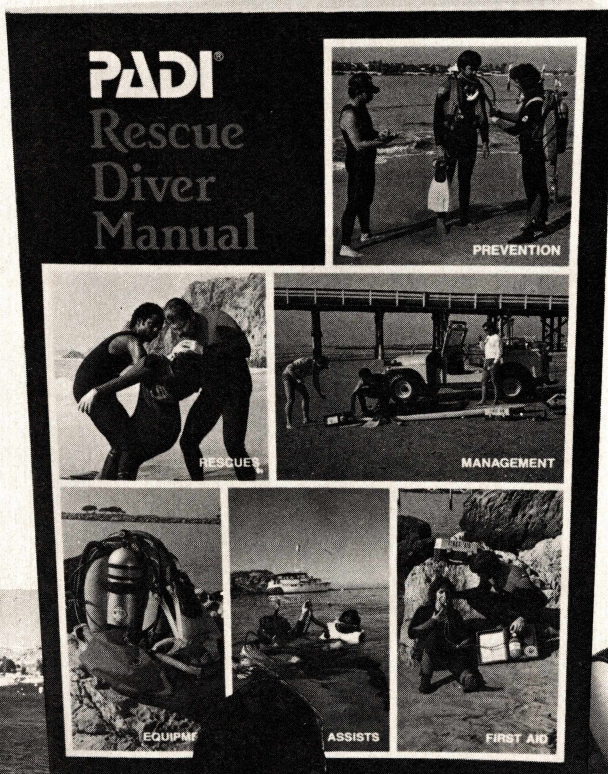
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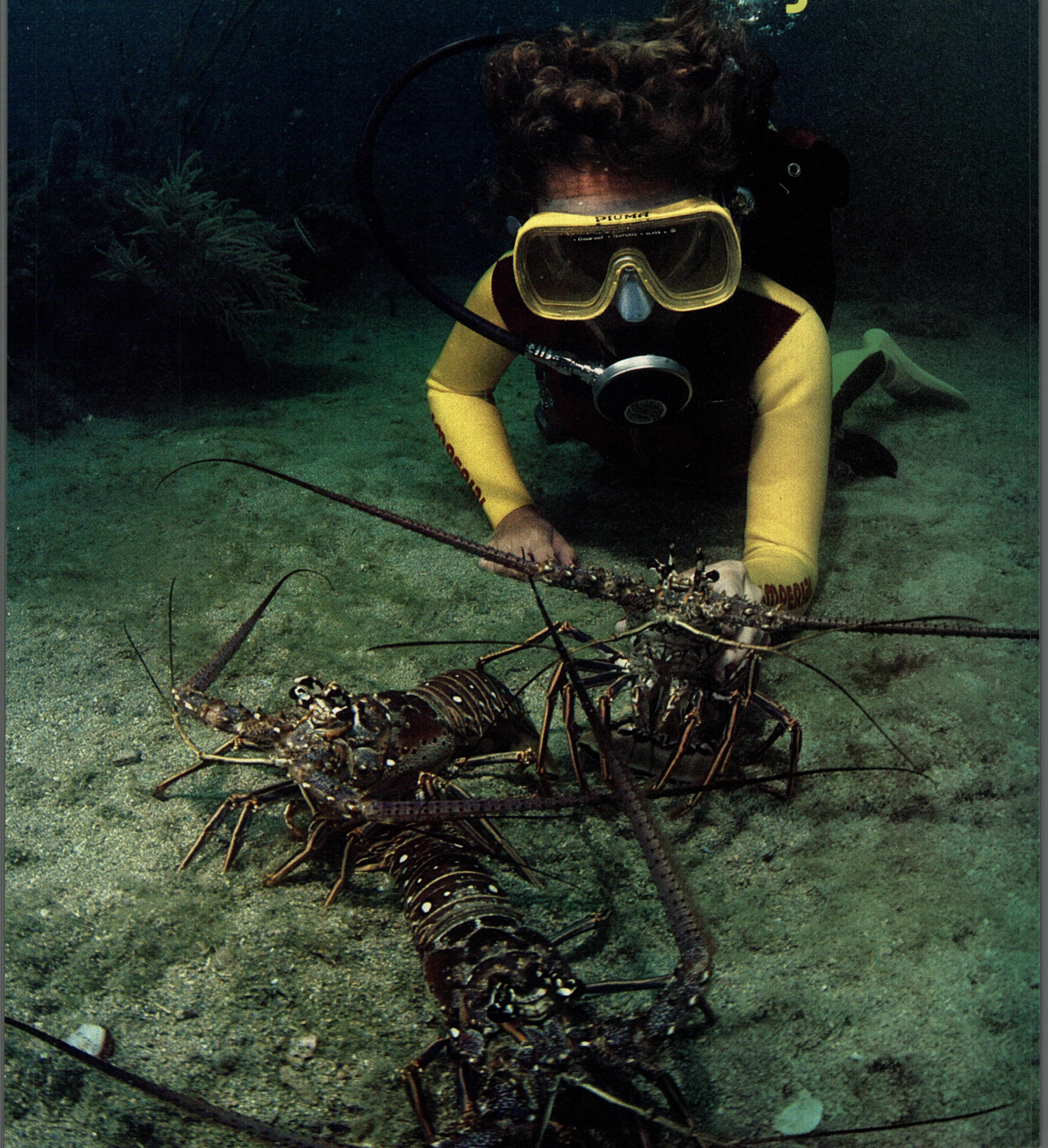
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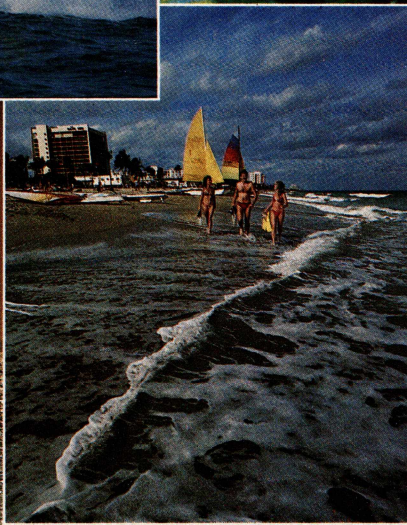
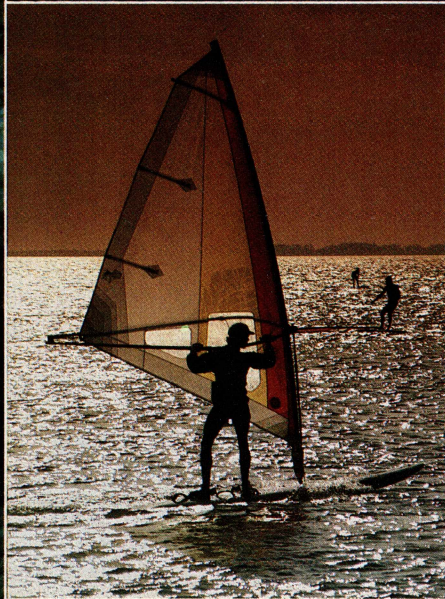
from deerfield beach to hollywood



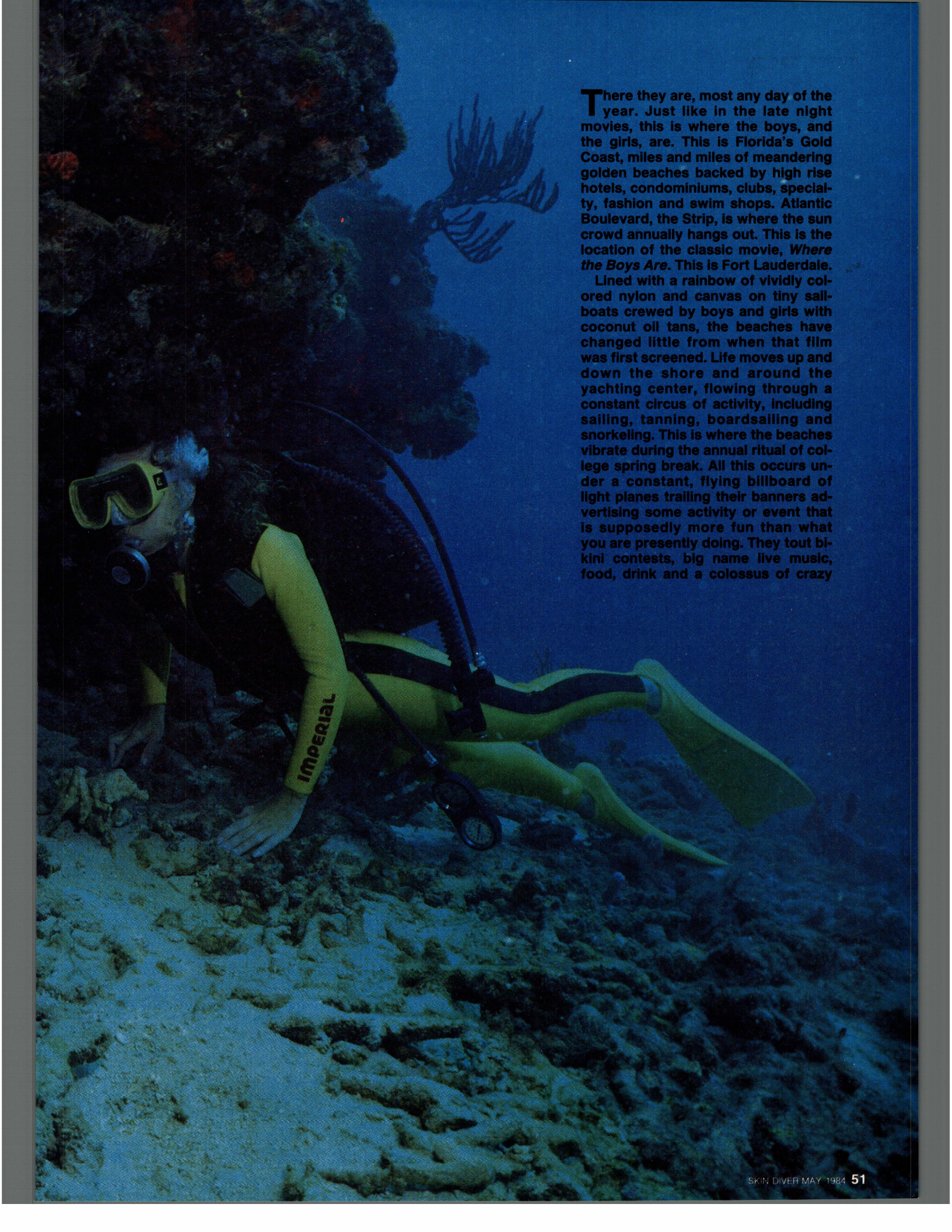
Dive The Gold Coast

Ft. Lauderdale, Pompano Beach And The Surrounding Area
Offer A Taste Of The Good Life

TEXT AND PHOTOGRAPHY BY STEVE LUCAS



Florida's Gold Coast includes miles and miles of golden beaches backed by high rise hotels. A variety of water-sports are available such as board-sailing, boating, sailing, snorkeling and just plain sun worshipping. Gold Coast diving includes stands of coral, wrecks, ledges and fish action.



There they are, most any day of the year. Just like in the late night movies, this is where the boys, and the girls, are. This is Florida's Gold Coast, miles and miles of meandering golden beaches backed by high rise hotels, condominiums, clubs, specialty, fashion and swim shops. Atlantic Boulevard, the Strip, is where the sun crowd annually hangs out. This is the location of the classic movie, *Where the Boys Are*. This is Fort Lauderdale.

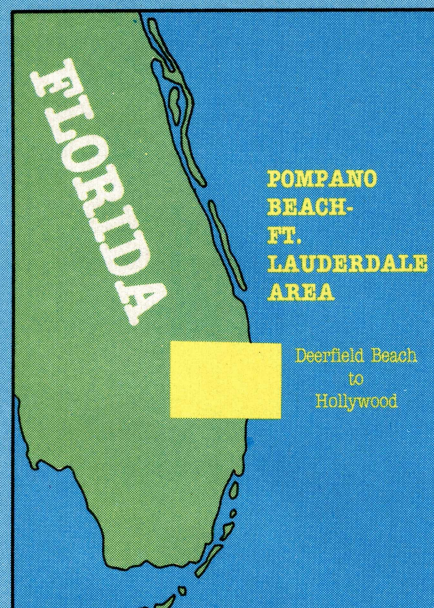
Lined with a rainbow of vividly colored nylon and canvas on tiny sailboats crewed by boys and girls with coconut oil tans, the beaches have changed little from when that film was first screened. Life moves up and down the shore and around the yachting center, flowing through a constant circus of activity, including sailing, tanning, boardsailing and snorkeling. This is where the beaches vibrate during the annual ritual of college spring break. All this occurs under a constant, flying billboard of light planes trailing their banners advertising some activity or event that is supposedly more fun than what you are presently doing. They tout bikini contests, big name live music, food, drink and a colossus of crazy

Fort Lauderdale

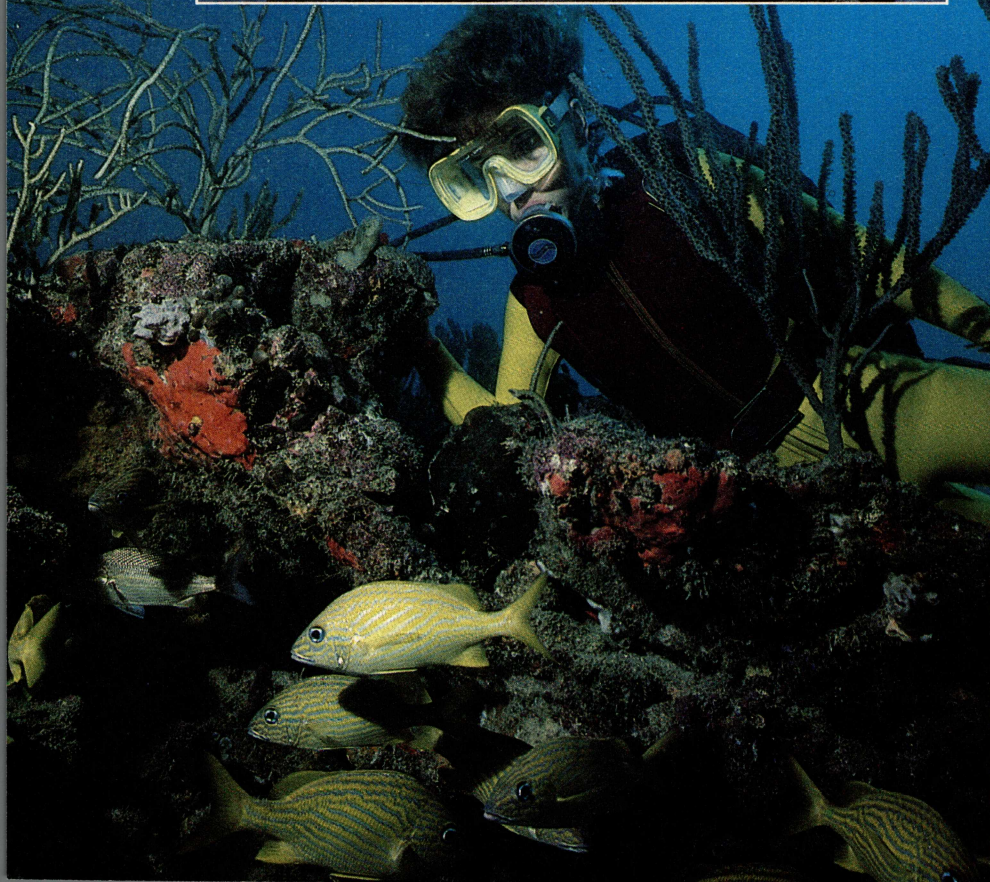
activities in a sun-up to wee-hours carnival. But Fort Lauderdale and its neighboring Gold Coast are a great deal more than beaches. These are resort cities that offer as much upbeat, on-the-go excitement or slowed down relaxation as a body can absorb. These are cities where you can wander, swimsuited and barefooted, through the lobby of a luxury hotel and be carried away in a jetstream of activity or drift passively underwater with the Gulf Stream's current.

Lauderdale has a myriad of activities:

exotic shopping amid the 100 varied and exclusive shops along Las Olas Boulevard, listening to banjo music and sampling a charcoal broiled steak on the *Paddlewheel Queen*, or cruising down the New River or Intercoastal Waterway aboard the riverboat *Jungle Queen* while you dine and watch a vaudeville revue. You can splash into a manmade ocean from the top of an immense collage of water flumes or play in the million gallon wave pool of Six Flags Atlantis. You can wager on the ultra-fast, man against man



Bottom: Janice Lucas and fish. Below: The *Jungle Queen*, Ft. Lauderdale.



sport of jai alai, or watch sharks being handfed, porpoises dancing across a pool, and amble through the exhibits of monkeys, alligators, sea lions, sea turtles and aquariums at Ocean World.

Lauderdale has museums (of art, history, archaeology and science) and is home to over two dozen of the state's finest public golf links, including the world famous classic at Inverrary. Just off the Strip is the Swimming Hall of Fame Museum with its public olympic pool, where swimming and diving super champions are immortalized. At the Sunrise Musical Theatre the biggest superstar names in entertainment are almost always in town.

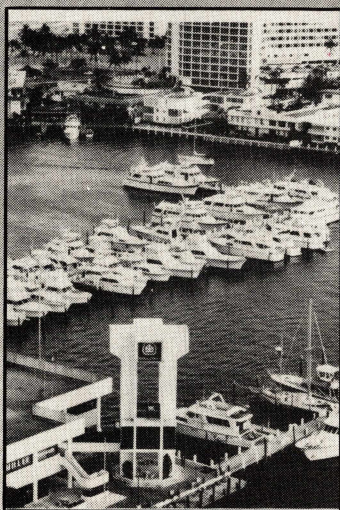
Choosing a place to dine on the Gold Coast can be a formidable task. There are nearly 3,000 restaurants in the area, more per capita than anywhere else in the country. The choices range from the obvious fresh grouper, snapper and seafoods directly from the Atlantic to fresh catfish from Florida's largest freshwater lake, Okeechobee. Specialty fares can include samples of French, Korean, Lebanese, Spanish, German, Japanese and native Florida Indian, or even an evening in Polynesia, including an exotic south seas island floor show.

In addition to its own attractions, Lauderdale is within hours of the Everglades National Park, Walt Disney World, Lion Country Safari, the Kennedy Space Center and most of Florida's other nationally known tourist parks, making it one of the most ideally located resort cities in the state. Port Everglades, Fort Lauderdale's seaport, is the largest cruise port in the southern United States, handling over 100 cruise ship departures annually, including the *Queen Elizabeth II*. Its airport has daily flights to and from most parts of the U.S., Bahamas and Caribbean.

As a dive destination, Lauderdale's reefs are relatively unknown to non-residents—they are a well kept secret of Flor-

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FORT LAUDERDALE

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Fort Lauderdale

ida's coastal divers.

Almost all Lauderdale's dive charter services operate out of or near the exclusive Bahia Mar Yachting Center across A1A from the beaches. Regularly scheduled, well equipped boats cruise from the yacht basin down the Intercoastal Waterway past multi-million dollar mansions, the famous landmark Marina Hotel tower of Pier 66 and out the Port Everglades Inlet. The short cruise offers a glimpse of Lauderdale's yachts and wealth.

When I first slipped over the transom of *Pro Diver*, one of the dive vessels operating along the coast, I thought we had drifted all the way to the Florida Keys. Within 100 square yards I experienced fish behaviors and populations I had never seen. In a tiny area of three small reefs, a row of three foot barracuda lined up under an overhanging shelf waiting in turn to have their gills cleaned by tiny blue gobies. A few yards away 100 immature, bright yellow wrasses swarmed in a tight ball to attack an entanglement of staghorn coral and totally devour its polyps to the amazement of a resident dusky damselfish.

Beneath the crust of diffusely colored sponge overhangs, schools of snapper ran in unison in fear of the rush of exhaled bubbles. Large blue angels darted in and out of the tight, low corals while divers snooped under every ledge and in every crevice for the telltale sign of a coastal diver's most sought after prey: lobster. At times two or three of the normally wary crustaceans could be spotted roaming about the area far from cover. Local divers claim these sites have the finest, and most rapidly replenished, lobstering in Florida. The reefs were as

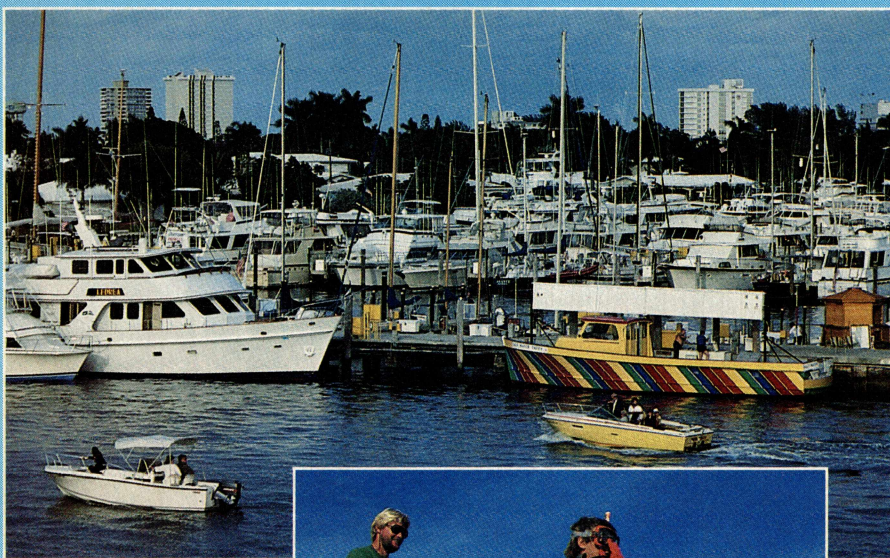
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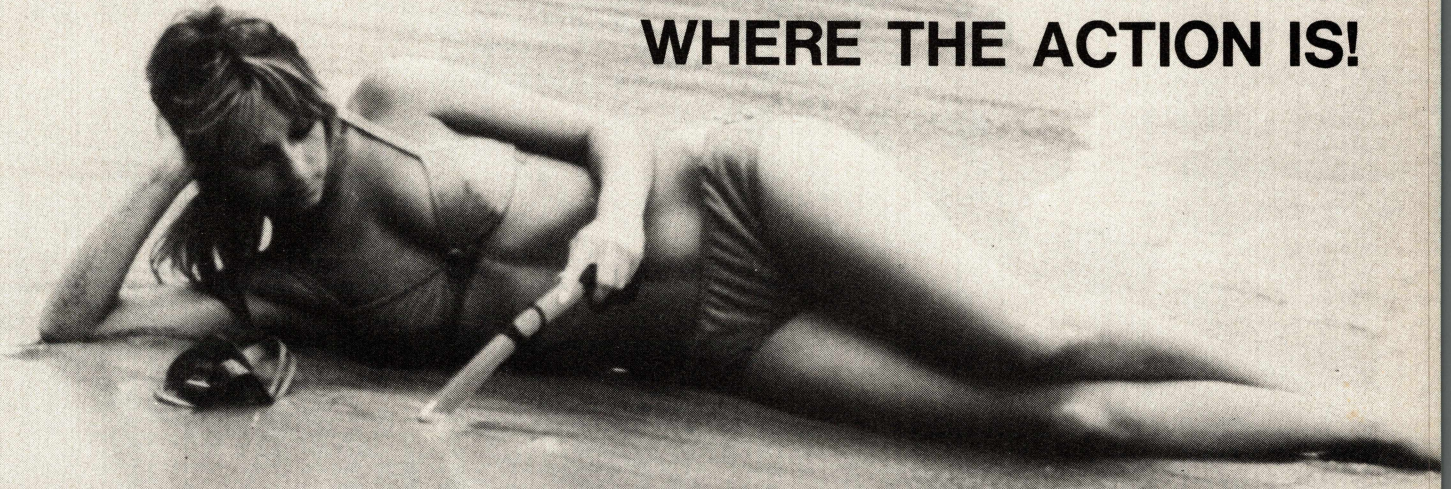
Above: The well known
Pier 66 at Port Everglades Inlet. Right: A diver enters the water from the stern of the *Pro Diver*—on the way to a Gold Coast U/W adventure.



photo/Mark M. Lawrence

FT. LAUDERDALE

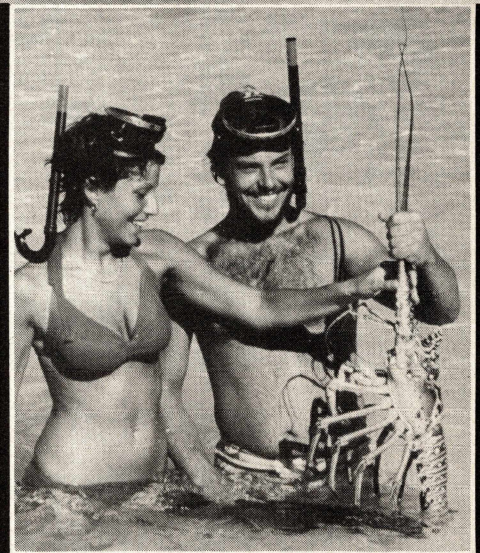
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Fort Lauderdale

lively as any in the state and, existing so close to shore, definitely among the easiest to reach.

At points along the entire Gold Coast they are close and shallow enough to snorkel from shore. Although water clarity on these close, ten foot deep areas is usually quite limited, there are excellent populations of tropicals, sponges and soft corals. Beyond the shallow line there are typically two additional reef banks, the middle averaging 30-40 feet, and the outer 60 feet deeper. A perfect example of these tri-formations is directly offshore the John U. Lloyd State Park.

Adjacent to, and running south of, the Port Everglades Inlet to the Dania pier, these reefs are the proposed site for Florida's second underwater state park. Spearheaded by a local environmental group, they, and diving tourism in gener-

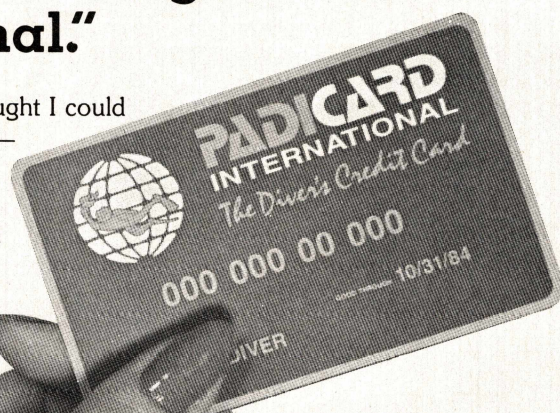
Immature wrasses off Ft. Lauderdale.

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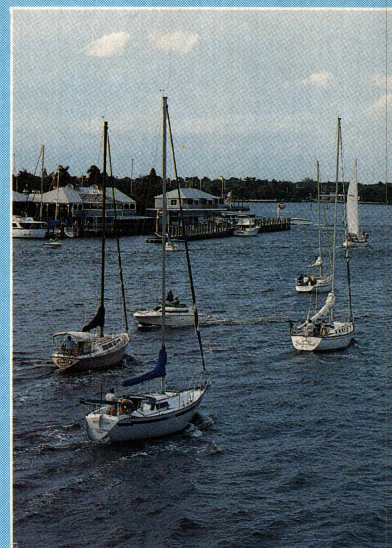
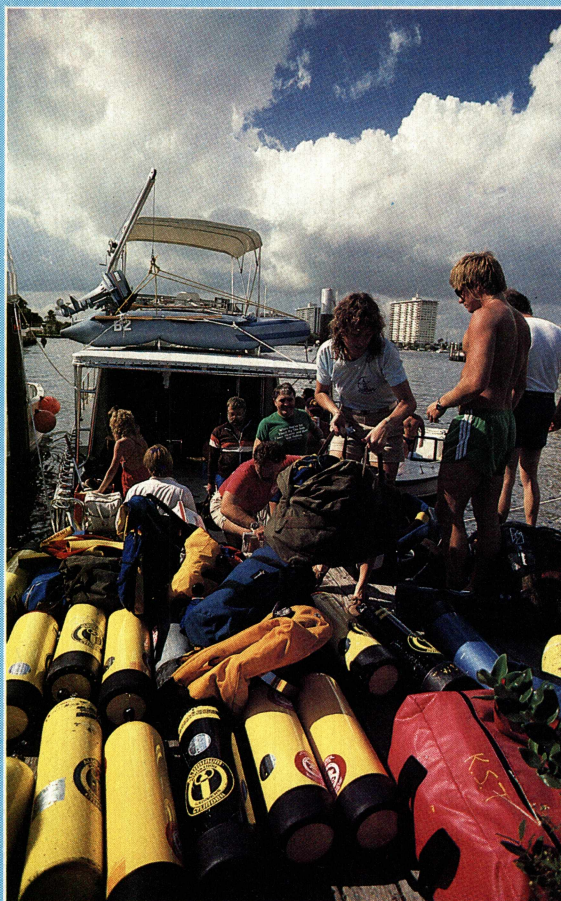


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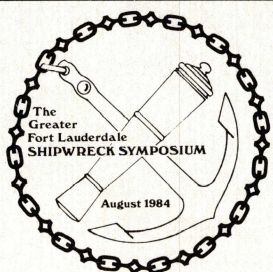
al, enjoy the support of the Fort Lauderdale Chamber of Commerce and are assisted in their legal effort by U.S. Representative E. Clay Shaw and State Representative Tom Armstrong.

The middle Cuda Reef and deeper Hammerhead Reef have some of the better populations of corals. The entire proposed park area includes excellent stands of staghorn, brain, star and very rare pillar corals, all of which are uncommon north of the Florida Keys. Although somewhat damaged by natural and man-made pollutants, including substantial port dredging, the reefs are generally healthy and, if protected as an extension of the Lloyd State Park, will provide an excellent seed area for fish, invertebrates and corals. An added benefit to protecting the coral will be better retention of the area's wide sandy beaches as the corals repopulate. The park would prohibit spearfishing, tropical collecting, wire fish traps, dredging, removal of historical artifacts and all boat anchoring except at designated moorings or in the sand.

Wrecks, both historically significant and insignificant, figure prominently in Gold Coast diving. Members of the Broward County Historical Commission's Marine Archaeological Advisory Council have researched a substantial list of wrecks in these coastal waters. Some are diveable, many beyond our reach, others not yet



Above: Sailboats in Port Everglades Inlet, Ft. Lauderdale. Left: Regularly scheduled, well equipped dive boats visit the offshore attractions along the Ft. Lauderdale coast.



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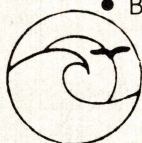
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located. A few have even been documented to have carried substantial amounts of treasure, some recovered and some still lost, and may actually include one of the galleons of the legendary 1715 Spanish Plate Fleet.

A wreck on their list which caught my immediate attention, but unfortunately is too deep to dive, is that of a German submarine which has been the source of countless wreck rumors for most of my diving years. Stories have placed this "secret" wreck at dozens of locations, all unsubstantiated, from Jacksonville, on the upper east coast, through the Keys, all the way to Pensacola on the upper west Gulf coast. At last, I am satisfied this legendary World War II wreck has been located. In almost 400 feet, off the Dania pier, it was sunk in December 1942 by Navy fighter planes. Navy frogmen cut a hole in its hull shortly following the sinking and removed its papers. Survivors of the sub were brought ashore and treated at local hospitals. The rest is a part of Broward County history.

Wrecks that are regularly dived from Gold Coast charter boats include the tug boat *Trio Bravo*, several barges, a houseboat and others purposely sunk as a part of the Broward County artificial reef pro-

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Holiday Inn Oceanside
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gram. Wrecks which have been the subject of some confusion as to their appropriate names include an 1899 steamer called the *Copenhagen*. Commonly called the *Cumberland* by local divers, the Marine Archaeological Advisory Council says the *Cumberland* is actually a hopper dredge known as the *Cement Ship* which sank in 1931.

The soon-to-be queen of Gold Coast wrecks today sits idly in the Port Everglades harbor still waiting for her demise and rebirth. The 400 foot freighter *Mazon* is destined to become the largest addition to the Broward artificial reef program as a joint project of local dive organizations and fishing clubs. Scheduled to be blasted near Pompano Beach, it will be the largest and most dramatic wreck off Florida's lower east coast and an obvious magnet to experienced divers.

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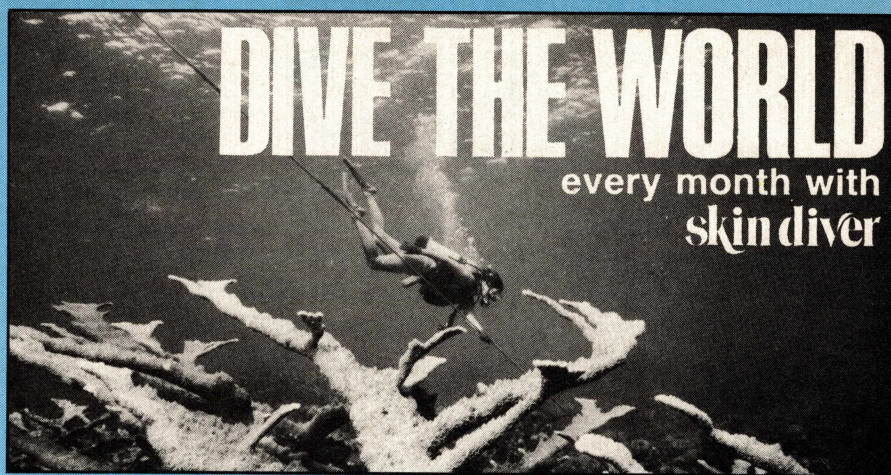
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FLORIDA SALTWATER FISHING LAWS

Pompano Beach/ Ft. Lauderdale Area

Since local regulations governing the taking of saltwater products may exist, you should contact the Marine Patrol District Office nearest the location where you will be engaging in these activities. [In the Pompano Beach/Fort Lauderdale area contact either the Jupiter office: 19100 S.E. Federal Hwy., (305) 747-2033 or the Miami office: 1275 N.E. 79th Street, (305) 325-3346.]

A saltwater fishing license is not required unless products are sold in any manner. For information on the sale of saltwater products, please contact the nearest Florida Marine Patrol Office.

MINIMUM LEGAL LENGTHS

All fish measured from the tip of the nose to the rear center edge of tail.

Blue Fish.....	10 inches
Pompano.....	9½ inches
Flounder.....	11 inches
Mackerel.....	12 inches
Black Mullet.....	11 inches
(West of Aucilla River) ...	9 inches
(Aucilla River to Citrus- Hernando County Line.)	10 inches
Trout, Spotted Sea.....	12 inches
(No size limit in Gulf or Franklin Counties)	
Red Fish.....	12 inches
Snook.....	18 inches
(Can't possess more than two.)	
Bonefish.....	15 inches
(Can't possess more than two.)	
Striped Bass.....	15 inches
(Can't possess more than six.)	
Grouper.....	12 inches
(Which includes: Red Grouper, Jewfish, Nassau Grouper, Black Grouper and Gag.)	

CLOSED SEASONS

Crawfish.....April 1 through July 25
Oysters.....Between June 1 & Sept. 1
Stone Crab Claws...Between May 15
& Oct. 15
Snook.....Jan., Feb., June & July
Shad (Sport).....No Closed Season
Shad (commercial).....Check Nearest
FMP Office for Regulations

SPORT FISHERMEN'S CRAWFISH SEASON

July 20th and 21st (2 days).
May not possess more than six
crawfish on July 20th nor more than
12 crawfish cumulatively for July 20th
and 21st.

[Although sport fishermen may also
take crawfish from July 26 through
March 31, these two special days
allow them to get a "jump" on the
season. Commercial fishermen may
not take crawfish on these two days.]

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LIMITS

Bonefish—2 only in possession. Can't buy or sell.

Snook—2 only in possession. Unlawful to take by means other than pole and line. Can't buy or sell. Snatching prohibited.

Sailfish—2 only in possession, can't buy or sell.

Tarpon—2 only in possession, can't buy or sell.

Shad—10 a day by hook and line.

Queen Conch—10 per day, 20 only in possession.

Striped Bass—6 only in possession. Can't buy or sell except when raised artificially under permit.

Permit Fish—(20 inches or larger) 2 only in possession. Illegal to sell, buy or harvest by net.

Stone Crab Claws—2¾ inches forearm. No trapping except under permit from the Department of Natural Resources. Legal claw or claws may be taken but live crab must be released.

Oysters—3 inches long.

Crawfish—Carapace measurement of more than 3 inches or tail measurement of 5½ inches. Crawfish must remain in a whole condition at all times while being transferred on, or below the waters of the state. The practice of wringing or separating the tail (segmented portion) from the body (carapace or head section) shall be prohibited on the waters of this state except by special permit issued by the Division of Law Enforcement. Any tail so separated under the provisions of a special permit shall measure not less than 5½ inches measured lengthwise from the point of the separation along the center of the entire tail in a flat straight position with tip of the tail closed. No egg bearing females. No spearing. It is unlawful to possess, have on board, or remove from the waters of this state, within any 24 hour period, more than 24 crawfish without first obtaining a crawfish license. No trapping except under license from the Department of Natural Resources.

BLUE CRABS

Unlawful to willfully molest any crawfish, stone crab or blue crab, trap line or buoy. Punishable as third degree felony.

PORPOISE

Unlawful to take, molest, injure, kill or annoy porpoises except under Federal permit.

All marine mammals or parts thereof are protected by Federal law.

If any marine mammal is found injured, beached or dead, report it to the Florida Marine Patrol.

MANTA RAY

It is unlawful for any person, firm, or corporation intentionally to destroy a manta ray.

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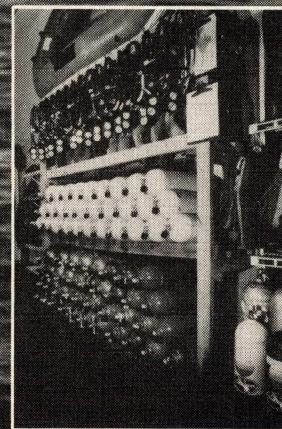


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MARINE TURTLES

No person, firm or corporation shall take, kill, disturb, mutilate, molest, harass or destroy any marine turtle. Marine turtles accidentally caught will be returned to the water immediately.

No person may take, possess, disturb, mutilate, destroy, cause to be destroyed, sell, offer for sale, transfer, molest or harass any marine turtle nest or eggs at any time.

SPEARFISHING

Illegal to possess in the water any spear, gig, or lance by a person swimming at or below the surface of the water in a prohibited area.

Illegal to spearfish in . . . immediate area of the following: (1) All public bathing beaches. (2) Commercial or public fishing piers. (3) Bridge catwalks. (4) Jetties . . .

CORAL

Unlawful to take, possess or destroy seafans, hard corals or fire corals unless it can be shown by certified invoice that it was imported from a foreign county.

DIVERS DOWN FLAG

(Required to be displayed while diving.) Meaning: Divers in area. Use extreme caution.

Pompano Beach

Within minutes of the pulsating life of Lauderdale are the wide, seagrape-shaded beaches and recreational fishing town lifestyle of Pompano Beach. Home to the Goodyear blimp *Enterprise*, Pompano is one of the most popular sport fishing cities on the eastern Florida coast. With an 875 foot municipal fishing pier open 24 hours daily, anglers frequently bring back catches of mackerel, tarpon, trout, snook and pompano. Only five minutes offshore the Hillsboro Mile Millionaire's Row is Sailfish Alley where the Hillsboro Inlet

charter fishing fleet takes deep sea fishermen to hunt for the really big fighters. Drift fishermen can catch a ride to the open ocean on one of the party boats out of Pompano's noted Fish City. Non-fishermen can charter a crewed or bareboat sailboat to explore the Florida coast for a day or a month.

As a vacation city, Pompano is close enough to, yet far enough away from, all of the big city attractions. With its own brand of excitement, Pompano is home to parimutuel Appaloosa and Arabian



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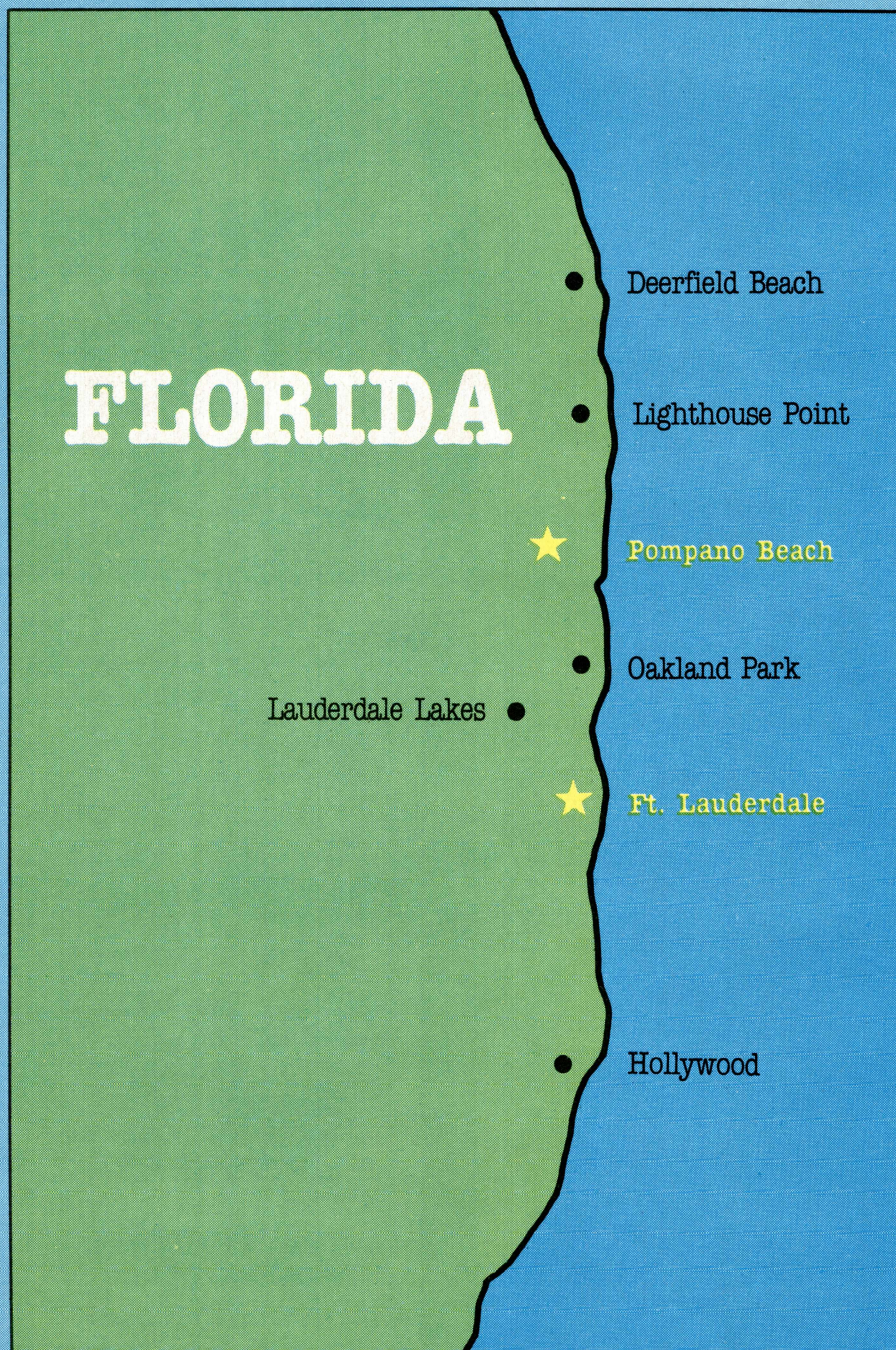
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quarter horses, as well as the world famous harness racing, at the enclosed, climate controlled, Pompano Park Harness Raceway. For horse lovers of the non-racing sort, there is Roger Brown's World of Miniature Horses with its tiny 15-31 inch tall performing thoroughbreds. After taking in all the local tourist sights there is a dinner show cruise aboard the *Hidden Harbor Showboat*.

Sailing out past the Hillsboro Inlet lighthouse, diving off these shores is among the best in south Florida. Local dive boats operate well to the north and south of the inlet giving an excellent sampling of Pompano and Lauderdale reef and wreck sites. The reef configuration near shore is excellent with many ledges rising high above the sand shelf. With high concentrations of lavishly colored sponges, the ledges are riddled along their 10-15 foot heights with thousands of hiding places for small invertebrates and large lobsters. Swept clean by the closeness of the Gulf Stream, the water visibility is normally excellent, making this an ideal underwater photo studio for both macro and wide angle. The combination of high reliefs, outrageous colors, surrealistic sponges and concentrations of snappers, spadefish and other fish make diving exciting.

In addition to the soon to be sunk freighter, *Mazon*, Pompano has numerous historic wrecks. Very near the inlet, silver disks dated 1715 were found at a yet to be identified, but obviously assumed to be Spanish, wreck. To the north is the 1835 wreck of the brig *Gil Blas* which, although very shallow, is of important historic significance to Broward County. Currently under study by the Marine Archaeological Advisory Council, the wreck figures significantly in the Seminole Indian wars of that period. Over a dozen other wrecks are within a few miles north and south of the lighthouse.

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WRECK INFORMATION

For more detailed information about the Gold Coast's wrecks, contact the: Marine Archaeological Advisory Council, Broward County Historical Commission, 100 B SE New River Drive, Fort Lauderdale, Florida 33301; (305) 765-5872.

To receive the biannual Historical Journal containing local wreck information, send a check for \$4.20 payable to Broward County Historical Commission—same address.

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Pompano Beach



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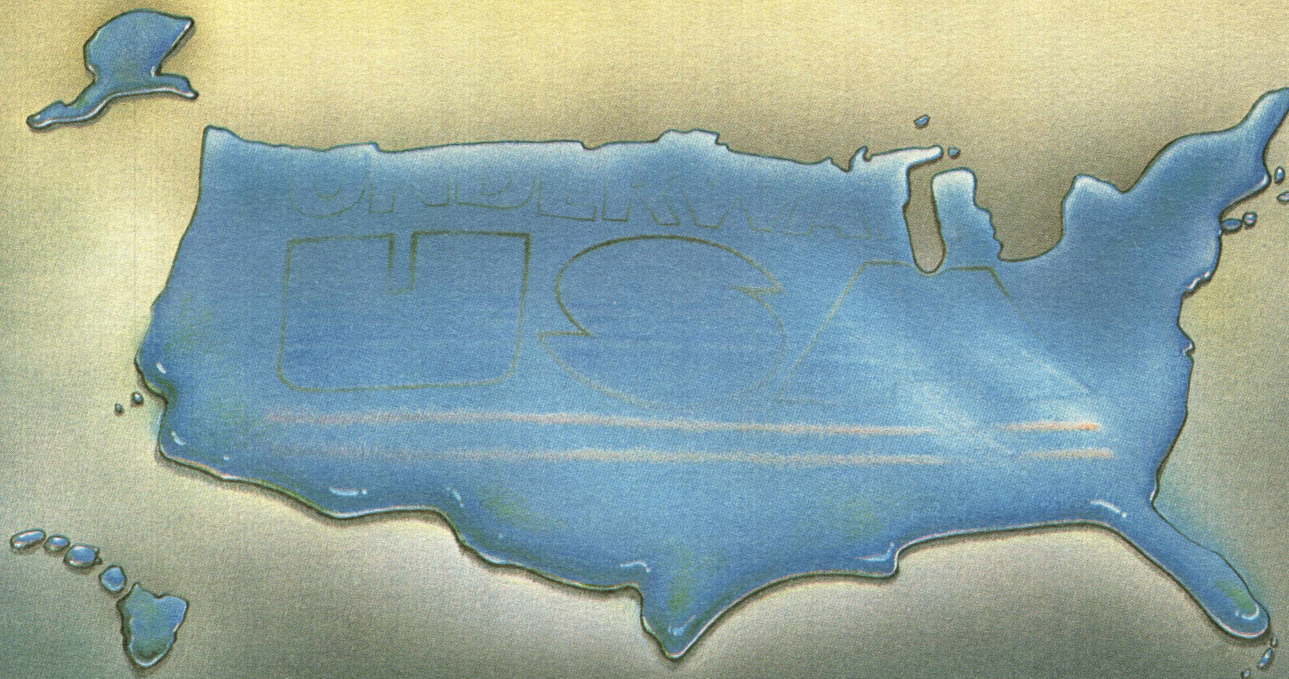
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perb diving, attractive hotels and quality dive operators, it is a small miracle that the Gold Coast has been able to keep its secret for so long. To those who have been able to keep this area as their private dive playground we offer our apologies. We are sorry fellows, but the secret is out of the bag!

For additional information about the Gold Coast contact: Tommy Mercer, Manager, Tourism/Convention Development, Fort Lauderdale/Broward County Chamber of Commerce, P.O. Box 14516, Fort Lauderdale, FL 33302; (305) 462-6000. Or, contact Sondra "Sunday" Crew, Greater Pompano Beach Chamber of Commerce, 2200 East Atlantic Blvd., Pompano Beach, FL 33062; (305) 941-2940.

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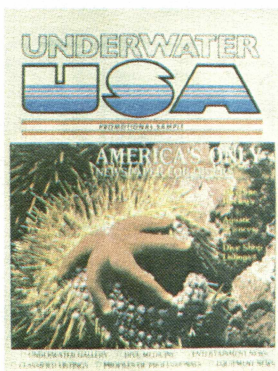
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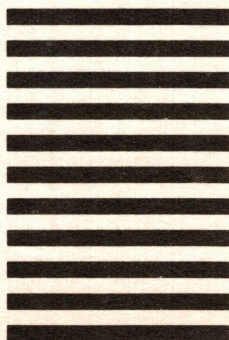
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In 1680 Guiseppe Borelli, an Italian physicist and astronomer, designed a diving outfit. The fins on Borelli's scuba gear looked something like birds' feet. Some 300 years later a Santa Barbara underwater photographer, Bob Evans, developed a radical new fin which bears more than a passing resemblance to Borelli's design. Some people love it, others hate it, but all agree that the Force Fin is different.

It feels as though you have no fins on at all. Advocates of the Force Fin love the feeling of freedom they experience when using it. Others feel that anything which seems so easy can't possibly provide any propulsion.

Three things make the Force Fin different: the blade, the foot pocket and the strap. The first two have been awarded a U.S. patent. The curved lower surface of the blade allows the fin to fold on the up-beat of the kick, minimizing resistance. On the downbeat, the fin opens up, flexes, and snaps, providing forward propulsion. According to Evans, the upbeat of a dive fin supplies no power, therefore resistance on that phase is wasted effort.

The wide open foot pocket encloses only the instep, leaving the foot exposed from the ball forward. This shortens the resistance arm, reducing strain on the ankle. Instead of pushing the blade with the toes, ankle and instep, this feature moves the pressure higher up the ankle, allowing use of more muscles of the leg. The strap is nylon webbing with a special buckle that tightens or releases with a tug on the end.

The radical design resulted from Evans' dissatisfaction with the fins he had been using. His quest for a better mouse-trap lasted through 14 years and 35 different prototypes. With early encouragement and help from diving pioneers Bev Morgan and Dick Anderson, he pro-

gressed through ideas, drawings and fiberglass models. Originally designed as a body surfing fin, it was adopted by commercial and sport divers in the Santa Barbara area. An early convert was Robbie Meistrell of Dive 'n Surf, Redondo Beach. Robbie became so enthusiastic that he decided to produce it through the firm's manufacturing arm, BG Watersports. Today, he sees the fin becoming accepted by a greater segment of the diving community.


However, many hardcore divers protested that the original Force Fin couldn't possibly provide any power because it felt too easy. They wanted a Force Fin for the big kicker. It was for them that the Pro Model was developed. Its polyurethane material is stiffer and has more rebound. More effort is required to kick it, resulting in more propulsion. Evans and Meistrell, however, still prefer the original model.

Kicking either Force Fin takes some getting used to. A shorter, faster kick,

with more knee bend, is required than with conventional fins. It is more like a swimming kick without fins, feeling as though it originates from the knee rather than the hip. People who have never used diving fins generally learn the technique faster. "It usually takes about four or five dives to really get it down," says Meistrell. There is a definite feeling of freedom going through the water, without the resistance and ankle stretch normally associated with fins. The wide open toe section enhances this feeling and helps to prevent cramps. However, be careful when kicking around rocks, because the toes are unprotected.

Treading water or sculling is done differently, because no propulsion is possible with the bottom of the fin. For treading, it's a short, fast flutter kick, much like riding a bicycle. When cruising slowly along a reef, just wiggle the feet with the knees bent.

Divers entering from beaches like Force Fins because they can walk with them, both on the sand and in shallow water. We're talking walking forward, not backward. Doing the "stingray shuffle" bends the blade upward, allowing forward progress. For surf entries, Meistrell points out that the fin will stay on the foot, even without the use of a strap, as long as you keep kicking.

The Force Fin looks and feels radical, unconventional, different. A thorough trial period is usually necessary to decide whether or not this is the right fin for you. One thing is certain. Borelli would have loved it. The Pro Model sells for \$59.95, the regular version is \$10 less. 

TEXT AND PHOTOGRAPHY BY ERIC HANAUER

SDM SPECIAL SERIES ON REGULATORS

Cressi-sub
Polaris IVTEXT AND PHOTOGRAPHY
BY GEORGE COZENS

At this year's Diving Equipment Manufacturers Association (DEMA) convention Cressi-sub introduced its new version of the Polaris IV regulator to the U.S. market. The new Polaris IV is based on quality materials and conventional design, but with significant improvements that make it worth examining.

The first stage is essentially the same as that used on the older version Polaris IV. It is relatively compact and only moderately heavy. The body is machined from solid brass while the swivel yoke, also of brass, is forged for greater strength. Both components are then chrome plated for corrosion protection. This heavy duty construction allows the first stage to accept supply pressures up to 300 bar, approximately 4,400 psi.

Internally, the mechanism is based on a piston design, which is neither the flow-through type nor balanced. Being a non-flow-through piston design means that air from the tank does not have to flow through the stem of the piston in order to reach the second stage. Here, the tip of the piston stem is solid and, normally with a plastic or rubber insert, forms the high pressure seat. When the piston is pushed

back, in the open position, air can rush through the high pressure orifice directly into the intermediate pressure hose and, hence, to the second stage. Only a very small amount of air passes into the piston stem, via a little side port. It continues down the length of the stem to the large piston face where it can apply a closing force on the piston. When the intermediate pressure reaches a predetermined value, which depends on the ambient pressure and the adjustment in the first stage spring, the piston closes, shutting off the flow of air. During inhalation or purging, the intermediate pressure drops slightly, permitting a small amount of the air behind the piston to bleed out through the stem; with reduced pressure behind the piston face, the piston is pushed back by the force of the spring and ambient pressure, opening the valve. Thus, the piston is merely a sliding valve, opening when the spring and ambient pressure overcome the closing force of the intermediate pressure, and closing when the reverse is true.

This design is quite simple and efficient, but it does have a drawback, if one wishes to call it that. Since high pressure

air acts directly on the HP seat at the end of the piston, this air has a tendency to push the piston back (open) with a force which varies according to the supply pressure. This opening force is greatest when the supply pressure is high and least when tank pressure is lowest. Because the effect of the changing supply pressure on the first stage piston is not self-compensating this design is said to be unbalanced.

Generally, the result of an unbalanced first stage is a slight change in the intermediate pressure which may cause an increase in the inhalation resistance when the cylinder pressure gets low. Although the Polaris IV first stage is technically unbalanced, the effect must have been minimized, since I experienced very little, if any, change in the performance level at low tank pressures—but I'll say more about this later.

Features of the Polaris IV first stage include: a Teflon high pressure seat; stainless steel spring; intermediate pressure of about 9 bar, or approximately 132 psi; one high pressure port, designated HP; and two (soon to be three) low pressure ports, spaced evenly around the stage

circumference. Although the unit comes with a grooved, hollow plastic dust cap to cover the high pressure inlet, no O-ring is included. My suggestion here would be to insert an O-ring into the cap for better sealing, or replace it with a solid plastic, O-ring sealed cap which would trap less water internally.

The major differences between the older Polaris IV and the new Polaris IV models are in the second stages. Both are based on the conventional, downstream, demand valve design. This has many years of proven field experience and the added advantage of being inherently safe, since it automatically vents off any overpressure in the event of a first stage malfunction.

Further improvements in the basic design led to the present Polaris IV model. While the rear of the second stage case is still chrome plated brass, the front half has been changed to an impact resistant plastic. The case is held together with a chrome plated brass clamping ring which is secured with a stainless steel screw.

The internal volume of the second stage was reduced for easier clearing in the event of flooding and for less carbon dioxide retention from the exhausted air. A direct-flow tube, called a venturi port by Cressi-sub, was added to channel the flow of air from the demand valve directly into the mouthpiece. This tube increases the venturi effect during inhalation and, therefore, reduces inhalation effort. Apparently, it also helps to control freeflowing, as we'll see later. The demand valve configuration was changed so that its adjustment could be performed without having to disassemble the stage or remove the hose.

Other materials used in the second stage include: stainless steel in the demand valve lever; chrome plated brass in the demand valve body; Teflon in the

valve seat; neoprene rubber in the exhaust tee, which is attached with two stainless steel screws; and silicone rubber in the diaphragm, exhaust valve and mouthpiece. This last material was selected because of its greater sensitivity to pressure changes and superior resistance to deterioration from ozone and chlorine. The large, flush mounted plastic purge button is spring loaded and held captive in the front cover of the stage case so it only deflects the diaphragm when physically depressed.

Because of its conventional design and corrosion resistant materials, routine maintenance of the Polaris IV includes only rinsing in fresh water after use, drying with hose(s) loosely coiled and avoiding long exposures to direct sunlight and heat. Professional maintenance should include annual servicing by a trained technician. Costs for this servicing will vary, of course, depending on the condition of the regulator, but the range for a complete overhaul might run between \$5 and \$20 for replacement parts and from \$15 to \$25 for labor. As with any regulator, routine care is worth the effort in terms of reduced repair costs as well as better performance in use.


The evaluation of the Polaris IV was conducted by me off the charter dive boat, *Scuba Queen*, at a place called Hen's Rock on the mainland side of Santa Catalina Island. A series of three dives were made to depths of 20-100 feet. On all three the Polaris IV performed very well. In all but one of the situations the Polaris IV exhibited inhalation resistances about as low as, if not lower than, the comparison regulator. At a depth of 100 feet, during gross inhalations, the Polaris IV supplied all the air I could use, but at what seemed to be a slightly higher resistance than the comparison regulator. Exhalation resistances appeared to be

about the same for both regulators in all cases. Exhaust bubbles ascended within view, but were not particularly annoying. These ascended to the sides, out of my central view, when I tilted my head down 20-30 degrees.

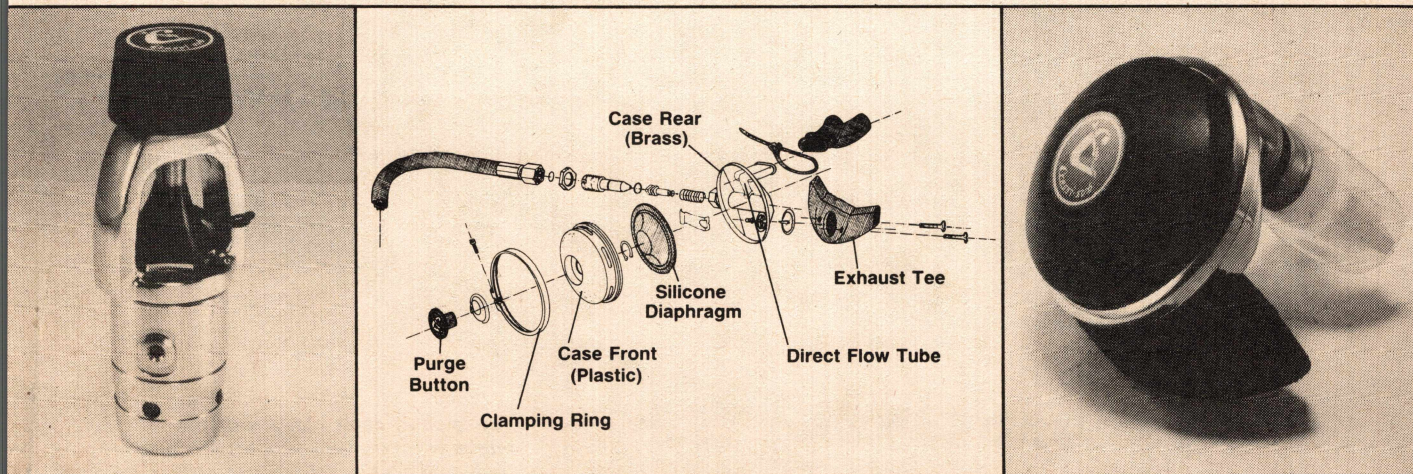
No idiosyncrasies were noted in any of my usual orientations including: looking down, looking sideways, standing on my head, and lying on my back. While standing on my head, a little freeflowing was noticed, indicating the regulator was quite finely tuned. And, while lying on my back, with head tilted back at an awkward angle (I was actually looking along the bottom, upside down), a minute amount of water was felt in my throat—in fact, I had to try this several times to be certain that I was feeling any leakage.

During inhalation the noise level was a little louder than the comparison regulator... not a complaint, but an observation. To my surprise, freeflowing was practically nonexistent: Under worst-case conditions (mouthpiece pointed upward and second stage full of air initially or manually purged) freeflowing started, but would extinguish itself within one or two seconds. This behavior is probably an added benefit of the direct-flow tube in the second stage: As air is bubbling from it, water can enter at the sides, flood the stage and stop the freeflowing.

At the end of the first dive I decided to see how unbalanced the Polaris IV was. Under controlled conditions, and at a depth of about 25 feet, I almost drained the tank but still didn't notice any significant change in the inhalation resistance.

The Cressi-sub Polaris IV retails for \$198. Considering its very good performance, fine quality, relatively simple design, easy maintenance and near absence of freeflowing, this should be a good regulator for just about any diving activity. 

Below left: The Polaris IV first stage is machined from solid brass, while the swivel yoke is forged for greater strength. Below right: The second stage case is plastic in front and brass in the rear. It incorporates a unique direct-flow tube (see diagram).



THE INFLATABLES

MOTOMAR WAHOO 480R

An excellent handler of quality construction with plentiful capacity

TEXT AND PHOTOGRAPHY
BY ERIC HANAUER

The boom in sales of inflatable boats over the last few years has brought many new models to our shores. Some are old European makes which have been available overseas for many years. Others are designed here, manufactured in the Orient, then shipped over. Quality and workmanship on both kinds of boats range from excellent to awful.

The Motomar is a new entry from Italy which ranks near the top end of the scale. Brand new to the United States, and not very old in its native land, this vessel is handmade to traditional standards of Eu-

ropean craftsmanship. The parent company has been involved in inflatables only since 1977. The Italian distributor for Johnson and OMC motors, Motomar also manufactures large wooden vessels for the Navy and Coast Guard, both trawlers and high speed hulls up to 60 feet long. When gasoline prices took off in the mid '70s, inflatable boat sales in Italy took off with them. The Motomar brass realized that a large percentage of their outboard motors was going on the buoyant little vessels and this was something they ought to be able to cash in on.

Just outside Milano, a small company called Floating had been building inflatable boats on a small scale since 1971. Motomar contracted with Floating to build 100 boats for them. They sold so fast,

and were so well received, that Motomar bought the company in 1978. The resulting line was called Floating Motomar. Tyler Diesel Power Systems of Irvine, California became the American distributor late last year. They liked everything about the boats except the name. After all, one would normally assume the boats float. No one is going to buy a Sinking Motomar. Therefore, the Floating will shortly disappear from the logo, and the vessels will be known only by their last name.

A complete series of inflatables is available, from an eight foot tender to a 15 foot sportboat. The smaller boats, up to 13 and one-half feet, have inflatable keels for light weight and portability. The three largest models, including another 13 and one-half footer, have wooden

MOTOMAR WAHOO 480R

Length	15' 7"
Width	6' 6"
Interior length	11' 5"
Interior width	3'
Tube diameter	22"
Number of chambers	5
Material	Trevira/Hypalon/neoprene
Keel	Wood
Weight	286 lbs.
Payload	2,640 lbs.
Passenger capacity	8 or 5 divers
Recommended hp	40 to 50
Maximum hp	75
Colors	Red or gray
Price	\$3,220



The Wahoo 480R has a squared off bow and a wooden bowdodger which can be folded in half or completely removed to provide space. The floorboards are wood.



keels for better handling. The assumption is that the larger boats will be trailered, therefore the added weight is no concern. All boats bear the names of sport-fish, from Bonita and Snapper through Amberjack and Skipjack. The object here is the top of the line, 15 foot, seven inch Wahoo 480R—480 is the length in centimeters, R stands for rigid keel.

A large, handsome boat with a squared off bow, our test craft was decked out in red. It is also available in gray. Everything about the boat says quality; the seams are straight, there is no sign of sloppy glue and everything fits. A hinged wooden bowdodger covered the front end, backed by a splash curtain. The bowdodger can be folded in half, or removed completely if more space is needed. The transom, as well as the keel, is 32 plies of wood for extra strength. We have seen boats with as few as eight plies, so this is an overkill which is appreciated. The floorboards are wood, with aluminum battens. Apparently, the Italian boat industry has been slow to adopt aluminum floorboards. All the other boats we tested from that country have wooden boards as well.

There are stainless steel carrying handles all around the 480R, including two at the bow. Heavy nylon lines supplement the handles and give passengers something to grab when going at high speeds. A double rubbing strake surrounds the hull for protection as well as spray deflection. The only compromise is the tiny set of wooden paddles, about kiddie size. In case of engine failure, moving the boat any distance with those things would not be child's play.

The five chambers are filled through rubber valves which are flush with the

hull. Valve covers are airtight, in case of valve leakage. A modern design, the valve bodies deflate the boat when given a half turn. However, unlike the popular plastic valves, they cannot be replaced by the owner in the field. A lot of cutting and gluing would be required.

With a base fabric of 1100 denier polyester Trevira, the hull is coated with neoprene inside and an 80-20 Hypalon/neoprene mixture outside. Trevira is used because it doesn't stretch like nylon.

The hull design maximizes interior space, with its squared off bow and only 28 inches of tailcone projecting beyond the transom. That results in a usable interior length of 11 feet, 5 inches without the optional bowdodger.

Standard equipment includes the paddles, a boarding ladder, pressure gauge, two self-bailing valves and repair kit. The familiar plastic hand pump is the one that comes with several other inflatable boats. A versatile unit, it pumps air on both the upstroke and downstroke, sucks out the last of the air when deflating, and can be used as a bilge pump if necessary.


Besides the \$129 bowdodger, options include a remote steering system and launching wheels. The steering can be mounted anywhere on the boat and provides room for passengers to walk around the tubular mounting frame. Our test boat was also equipped with a couple of standup tank racks. They consisted of pads and attached straps.

When I arrived at Dana Point Harbor for the test run, the boat was still in its three bags. Steve Elliot and Jim Eskue of Elco Marine, Santa Ana, California wanted to demonstrate how quickly the Motomar set up. Sure, I thought, preparing for a long morning. Within 14 minutes, the boat

The 480R has a wooden keel which allowed the boat to remain dry in four foot swells and yet handle well in tight turns on smoother water. With a 40 hp engine the boat easily carried four passengers and dive gear with two-thirds throttle.

was ready to launch, with an assist from a tiny electric air pump.

Equipped with a 40 horsepower Suzuki engine and loaded with four passengers and dive gear, the Wahoo headed out into sloppy four foot swells. The uphill run involved a lot of pounding. Mercifully, Steve used only two-thirds throttle. But despite the pounding, the boat ran dry with no spray over the bow. Coming home was another story. Staying ahead of the swell, he opened it up and we surfed in on the downhill leg. It was like a different ocean and seemed a lot faster than it really was. One of the joys of inflatable boats is that feeling of speed in smooth or following seas. You have to be close to the water to experience it. Moving east of the jetty onto flatter water, we tested the handling with some tight, high speed turns. This is where a rigid keel is supposed to shine, and the Motomar didn't disappoint us. It gets high marks in the handling department.

Motomar is a welcome addition to the inflatable boat picture in this country. The Wahoo 480R is a big, heavy boat, made to be trailered. Its strengths are quality construction, excellent handling and large carrying capacity. Its price of \$3,220 makes it very competitive. If there is no dealer in your area, contact the distributor, Tyler Diesel Power Systems Inc, 17801 Skypark Circle, Irvine, California 92714. 

SCUBAPRO

PANTHER 26

spear gun

SOLID & EFFECTIVE

TEXT AND PHOTOGRAPHY
BY FRED FISCHER




The Panther is a 26 inch long, twin banded gun made of injection molded plastic.

spearfishermen. The safety, which slides from side to side, is behind the trigger. The markings (safe vs. fire) may be a little hard to read in low light conditions. Components of the trigger mechanism are made from sintered, powdered, stainless steel. They are impregnated with molybdenum disulfide for permanent lubrication and a relatively smooth triggering action. The mechanical line release is in front of the trigger so the shock cord runs tightly along the barrel to minimize snaring on objects underwater. The line is 3/32 inch braided nylon, stiff enough to make tangling difficult. An elastic section maintains tension during loading.

A cocking stock extends eight inches behind the grip for easier loading. The rubber end cap is flared to help spread the loading pressure over a broader area of the spearfisherman's body.

The Panther is well suited for customization. Holders for a reel, float or light can be screwed right into the stock. Extra slots in the muzzle and on the shaft are provided for a third rubber band. For additional penetrating power a 3/8 inch stainless steel shaft is available. The six millimeter thread accommodates a full range of tips.

I would recommend the Panther for two reasons—low maintenance and solid construction. Corrosion problems have been minimized by a good choice of materials and heavy duty construction is utilized for long term performance. Visit any Scubapro dealer for a look. The suggested retail price is about \$135. 

In a market loaded with dozens of spearguns and copies of spearguns the Scubapro Panther stands out as unique and well designed. If you study each feature of the gun it becomes apparent that the designers took the best of what was available, combined it with modern advances in materials, and produced a product which was simple but effective.

There are actually two Panthers, the 36 inch model and a scaled down 26 inch version. Standard features include two black rubber slings, a 5/16 inch stainless steel shaft, double barbed tip with replaceable, four-way cut point, mechanical line release and one piece construction with padded cocking stock.

The most unusual aspect of the Panther is the combining of the muzzle, barrel, handle and butt stock into one solid piece of injection molded, black, polypro-

pylene plastic. For strength, glass fibers are added to the polymer. There are several benefits from this type of construction. Because there are no joints between the handle, barrel and muzzle the whole gun is extremely rigid. You do not have to worry about the barrel filling with water and the resulting corrosion. A foaming agent is added to the plastic as it is molded to give it enough buoyancy to float when the shaft is fired.

The muzzle of the Panther is open at the top to simplify loading. All you have to do is slip the shaft under the slings, along the top of the barrel and into the trigger housing. The slide ring locks into the muzzle to keep the shaft from jumping free when it is loaded. For accuracy, guides on either side of the muzzle align the twin rubber bands with the axis of the shaft for a straight pull. Furthermore, a slight depression in the top of the barrel serves to guide the shaft in a straight path during ejection.

The handle is lightly contoured and designed for either right or left handed

U.S. DIVERS

Sea Lion

The Latest in Wraparound BCs

TEXT AND PHOTOGRAPHY BY BONNIE J. CARDONE



What's black and yellow and gives you a lift? U.S. Divers' Sea Lion: The latest in wraparound BCs from one of the oldest dive equipment manufacturers in the world.

The Sea Lion looks both sturdy and stylish. All black, with the U.S. Divers logo in yellow and a yellow dump/overpressure relief knob, it is very attractive. It should last a long time as well. The outer shell is puncture and abrasion resistant nylon. This very rugged material resists fading and handles the abuses of diving very well.

The inner bladder was a U.S. Divers innovative "industry first" last year. Made of heavy duty nylon with triple urethane lamination, it is stronger and more durable than the bladders it replaced. According to a company spokesman, the new bladder resists punctures, mildew and ultraviolet light better than its predecessors. Its seams are electronically welded for strength.

There are lots of other features that make the Sea Lion a comfortable, functional piece of dive gear. The dump/overpressure relief valve on one shoulder and the oral/low pressure inflator hose on the other are interchangeable: You can have your dive store install each on the shoulder that most suits you. Velcro® guides keep inflator, regulator and pressure gauge hoses in place so you always know where to find them. The pocket has a stretchy mesh bottom so it's self-draining. The flap folds all the way over and a vertical strip of Velcro lets you adjust the closure to fit the object you put into the pocket, large or small. Underneath this pocket is the emergency 25 gram CO₂ cartridge. (Thirty-eight gram cartridges are available optionally.)

The Sea Lion comes in four sizes: small, medium, large and extra large.

There are four buckles so your Sea Lion can be adjusted to fit you. There is a buckle with straps on each side; a quick release buckle and straps across the chest; and a waist (backpack) buckle and straps. The straps are all sturdy nylon webbing; the buckles are an impact resistant polymer.

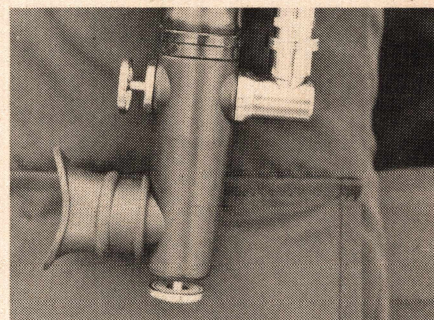
You can inflate the Sea Lion three ways: With the oral inflator hose; the low pressure power inflator; or with the CO₂ cartridge. This latter should be used only on the surface as an uncontrolled ascent could occur unless the user manually vents air. When using the power inflator underwater add only small amounts of air until you achieve neutral buoyancy. This is a large volume BC that provides a lot of lift (in fresh water the small provides 37; the medium, 42; the large, 44; and the extra large, 50 pounds).

Deflating the Sea Lion can be accomplished three ways: By pulling down gently on the corrugated inflator hose (this opens a one-way valve at the shoulder); by holding this hose overhead and pressing the deflation button on the end; or by pulling the yellow knob that opens the dump/overpressure relief valve on the opposite shoulder.

The Sea Lion comes with its own backpack. The Kam Pac is a sturdy, impact resistant polymer and the tank band is nylon webbing with a rubber sleeve to minimize slipping. This type of tank band tends to stretch when wet so soak it in water before you put it on the tank. On one side of the band there is a sturdy stainless steel/plastic buckle that holds it securely closed.

I used the Sea Lion on four ocean dives. I anticipated being more buoyant

and added four pounds of lead to my weightbelt—this was just right. I anticipated drag, but was surprised to discover that if this occurred it was unnoticeable. I really liked being able to set up tank, BC and regulator at my leisure and then slip into the system at the last moment. I found the Sea Lion more comfortable than my usual horsecollar BC/backpack ensemble. And, on the surface, it was wonderful to inflate the unit fully and ride high out of the water: I could see practically forever!



The oral/low pressure inflator mechanism.

Maintenance of the Sea Lion is easy but should be done regularly. After every diving day in salt or chlorinated water, soak the Sea Lion in warm, fresh water. Remove and inspect the CO₂ cartridge and discard if it shows excessive rust or corrosion. Before replacing, coat the threads lightly with silicone grease.

At least one quart of warm, fresh water should be poured into the inner bladder via the inflator hose. Swish this around thoroughly to remove salt or chlorinated water. (Salt crystals and chlorine can be deadly to inner bladders.) Drain the water out through the inflator hose with the BC upside down. Partially inflate the Sea Lion and let it dry out of direct sunlight. Although the inner bladder is removable for repair or replacement, preventive maintenance is cheaper. U.S. Divers strongly recommends that the Sea Lion be returned to your dealer once a year for inspection and replacement of O-rings.

The sturdy Sea Lion should give safe, dependable service for years. It sells for \$325. See one at your nearby U.S. Divers dealer. >✕

HEUER'S DIVE TIMER IN A WATCH



TEXT AND PHOTOGRAPHY BY GERI MURPHY

Heuer (pronounced hoy-er) has recently introduced a nifty underwater watch that doubles as a dive timer. It is a high quality timepiece with a built-in analog (dial face) timer that can be started and stopped while underwater. Known as the 2000 Quartz Chronograph this compact wristwatch allows the user to tell time underwater as well as observe the correct date and time during the entire dive. The dive timer functions are performed separately from the watch.

THE WATCH

Long known for its design of attractive underwater watches, Heuer has come up with an extremely rugged timepiece that will withstand the rigors of open water diving. The outside case is constructed of solid stainless steel and the wristband is equally tough. As with other Heuer dive watch models the wristband features a clever fail-safe security lock which prevents the main clasp from accidentally opening. Both the case and wristband have a satin anodized stainless finish.

The watch face contains a flat mineral glass crystal. The stem is fully protected from accidental snagging by a solid metal shoulder. There is a uni-directional click stop bezel that rotates counterclockwise. The bezel is also constructed of stainless steel, clearly marked in one minute increments and has base relief notches for easy manipulation with gloved fingers. The small dial face at the 12 o'clock posi-

tion tracks the seconds in conjunction with the main watch face.

The 2000 Quartz Chronograph keeps super accurate time with its quartz governed movement. It contains a battery that should last three years.

THE DIVE TIMER

The dive timer runs off the same quartz motor as the watch movement and therefore has extreme accuracy. It is an analog timer using three separate dial faces. The large sweep second hand of the main dial face is used to track the seconds on the dive timer. The needle pointer moves in one second increments and the outside edge of the main dial face is clearly calibrated in one second increments as well.

A small dial face at the nine o'clock position tracks the minutes from 0 to 30. This dial face is also clearly marked in one minute intervals.

Another small dial face at six o'clock is used to track the hours from 0 to 12. It is marked off in increments of half hours, corresponding to the adjacent 30 minute dial face.

There are two stainless steel buttons on the right side of the watch. These are spring loaded and contain O-ring seals for underwater operation. The top button starts the timing (one push) and also stops the timing function (a second push). The bottom button is the zero reset for the entire timing operation.

This watch can be utilized for several

types of dive timing functions. The user can time the length of the dive from surface to ascent to the 10 foot decompression stop. He/she can also time the decompression stop if there is one. And, of course, the watch can be used for timing the diver's surface interval.

CONSTRUCTION

Heuer is a company which has become world-famous for the design and development of stop watches and split second timing devices used in racing. The same high technology chrono-quartz movement has been incorporated into this diving watch. A single quartz motor powers both the watch movement and the chronograph timer. This design is an exclusive Heuer patent.

The watch is manufactured in Switzerland, regarded as the home of the world's best watches. This particular model is tested to a depth of 660 feet.

Heuer offers ten different styles or models of this watch. The all stainless steel model is \$550 and the combination stainless and gold plated, \$600. A black and gold tone model is \$670.

These watches are available at most pro dive stores throughout the U.S. You may want to stop in and see one for yourself. If you do not live within a convenient distance of a dive store, you can obtain a free color catalog by writing: Heuer Time & Electronics Corp., 960 South Springfield Ave., Springfield, NJ 07081 or by telephoning (201) 467-1890.

THE FIRST NEW FIN SINCE FINS WERE INVENTED.



The first swim fins were a lot like the one on the right — a shoe with a stiff board bolted on. Most still are. And other, more flexible fins still retain the old paddle shape. Swim fin development has been stuck for years. Until now.

Introducing the Force Fin.

If you've ever tried to raise a board flat out of the water, you know how hard it is to lift. The old fins require the same effort to upkick when you're swimming. After a while your foot gets tired and cramps set in.

The Force Fin folds down on the upkick to reduce water resistance and snaps open for full power on the downstroke. Swimming with the Force Fin at first gives the

impression that nothing has been attached to your foot at all. That's because the water flows backward, rather than up and down. You don't have to work hard to make the flexible Force Fin work.

And since there are no thick ribs on the fin, the blade moves in any direction you want and doesn't

veer to the right or left at an awkward angle, as other fins do.

The old fins have a stiff foot pocket that

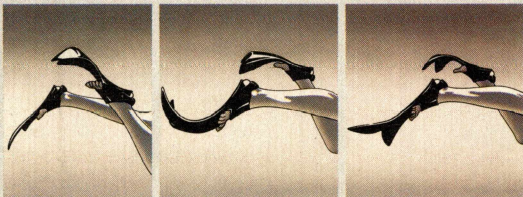
causes your toes and arches to cramp. The Force Fin doesn't cause cramping because the fin is flexible and the toes are free of the pocket, so they can bend naturally, without restriction.

The Force Fin is made of high quality polyurethane instead of

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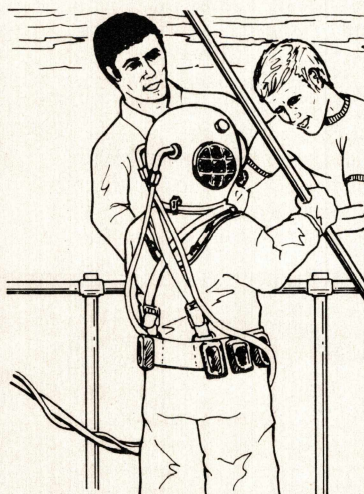
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FLAG STICKERS

In an attempt to promote boater awareness and safety, the Wright State University Underwater Education Program (Dayton, Ohio) under the direction of Dan Orr, has recently produced dive flag awareness and recognition stickers. These are part of the program's ongoing effort to help add some measure of clarification to the current dive flag controversy. The stickers also indicate Ohio's new law which gives the diver 150 feet of protected area around the flag. This was initiated by the WSU U/W Education Program (the original text being written by Dan Orr) and became state law this past year.

For additional information and/or a sample sticker, contact: Dan Orr, Director of Underwater Education, Wright State University, Dayton, Ohio 45435; (513) 873-2402.

NAUI COLLEGE COURSES

The NAUI College announces two new one-day course offerings: the Marketing Management Workshop and the Sales Training Workshop. The first class is designed for marketing managers and offers creative ideas for profitable business expansion. The sales workshop is for personnel who wish to develop professional selling skills.

SEAQUEST

SeaQuest, Inc. has opened a new warehouse facility in Lauderdale Lakes, Florida. This represents a strategic advantage to the Carlsbad, CA corporation, providing a local F.O.B. shipping point for all dive shops in Florida and the Caribbean. The new warehouse also provides SeaQuest with an eastern receiving point for imported goods from AMF Mares, Italy and Suunto Oy of Finland as well as the other imported European products for SeaQuest's marine division.

Emerson Mulford has been appointed vice-president, marketing, Southeast and will head up the operation. The new facility will also provide a full customer service function with order services tied into the main computer at SeaQuest, CA and a complete repair department.

OCEANIC PROMOTIONS

Dan Emke has been named sales/marketing director of Oceanic in San Leandro, CA. He was previously product manager in the photographic division.

Emily Morrison is the new sales manager for the Southeast. Previously her territory was the Northwest.

Ed Gardipe is the new Northeast sales manager. He was formerly sales manager of New England Divers.

SDM travel SECTION

With a sense of *déjà vu* I recently joined a cruise aboard the M/V *Tropic Bird*. I had experienced a similar scene two years before, not only with the same boat and same anchorage, but, surprisingly, in the ever-changing world of Caribbean diving, even with much the same crew.

I had enjoyed the cruise and experienced excellent diving before and it was reassuring to see Captain Mike Bloss and the crew prepared to offer the same again. However, not all aspects of the trip turned out to be identical. Before, the boat had been chartered by a very hardcore group of New Jersey wreck divers who wanted to maximize every available minute of scuba time allowed by the tables and human endurance. This year's guests were seeking a more relaxed combination of diving and cruising. In fact, there were several non-divers in the group who were very pleased with the snorkeling and beachcombing built into the *Tropic Bird* cruise. In each case the desires of the charter group determined the flavor of the cruise, for not only do the British Virgin Islands offer a diversity of marine related activities, but the *Bird* crew aims to please.

The M/V *Tropic Bird* is a 98 foot, diesel powered, live-aboard vessel outfitted specifically for scuba diving. However, this evolution is fairly recent. Captain Bloss and Phil Clarkson acquired the vessel in the summer of 1980 and literally gutted the interior to make it amenable to sport divers. Previously the boat had been used to hunt treasure and as a private yacht. The keel was laid in Germany in 1944 along the lines of an E-boat, but as the war effort was proceeding in favor of the Allies, she was never placed into war service.

In her present capacity, the *Bird*

M/V TROPIC BIRD Affordable Live-Aboard Diving in the BVIs

TEXT AND PHOTOGRAPHY
BY STEPHEN FRINK



cruises at 8-10 knots through a range in the British Virgin Islands that can extend, weather permitting, from Virgin Gorda to the east through Norman Island in the west. In the summer, when the seas are predictably calmer, the boat will occasionally motor as far north as Jost Van Dyke.

While each island is discernibly different in both topside and underwater appeal, they share certain similarities. They are extremely picturesque with precipitous, verdant hillsides often adjoining a white sand beach. White, puffy clouds adorn a clear, blue sky on an average day, and on a good day, the BVIs may be the prettiest is-

lands in the Caribbean. Sir Francis Drake Channel is the aqua-artery connecting the islands with a complete capillary system of secluded anchorages and spectacular diving. These are ideal cruising grounds for a live-aboard dive boat and the *Bird* serves its purpose admirably.

The *Tropic Bird* carries 3,600 gallons of fresh water; two Mako K-14 compressors, able to fill their aluminum 72 cubic foot cylinders in seven minutes; full scuba and snorkeling equipment inventories; a boardsailer and Sunfish sailboat; and is fully air-conditioned. The vessel can accommodate 24 passengers in 12 double

staterooms and features five conveniently located heads, 110 volt electricity, freshwater showers, stereo and videotape, a sauna, and spacious dining and lounging areas. The decor is more utilitarian than opulent, for this is a vessel designed to accommodate the unique needs of the diver.

The crew of the *Bird* are avid divers and several carry divemaster or instructor ratings. Resort courses are complimentary and full certification courses aboard the ship can be completed for only \$100 beyond the eight day/seven night package price. A member of the crew is always in the water when the guests are in the water, both for safety and personal enjoyment. Captain Bloss logged over 1,200 dives in the BVIs last year alone, so it is a fair assumption that when he anchors at a dive spot, he knows what the underwater terrain will be. Some of the dive sites included in a *Tropic Bird* tour are as follows:

Peter Island/Wreck of the *Imene*: The *Imene* is a 70 foot island trader sunk in 40 feet of water off Peter Island. This is a marvelous anchorage and an excellent re-orientation dive for those who may have been inactive for awhile. This is generally the first anchorage following the ship's departure from Tortola and provides an opportunity to dive a lovely coral reef and an interesting wreck under safe, controlled conditions.

The Indians: These are sheer rock pinnacles protruding from a sand bottom at approximately 50 feet with a gentle sloping seafloor and scattered coral heads down to 100 feet. The marine life surrounding The Indians is quite profuse and both hard corals and gorgonians abound. The visibility here, as throughout the BVIs, ranges from 40-150 feet.

Ring Dove Rock: This is sort of a Caribbean seamount rising from 60 feet to within 12 feet of the surface. There are all manner of reef tropicals inhabiting the healthy, vibrant coral heads and quite a selection of soft corals as well.

Vanishing Rocks: This is one of my favorite shallow reefs in the BVIs. There are spectacular stands of pillar coral and ledges full of tropical fish. The fish seemed relatively easy to approach on this dive, and there is ample photographic potential. However, Vanishing Rocks is a "weather-permitting" dive as the *Bird* dives it from inflatables rather than anchoring directly on the reef and possibly damaging the unique marine environment.



The M/V *Tropic Bird* is a 98 foot, diesel powered, live-aboard vessel outfitted specifically for sucba diving. It cruises through the British Virgin Islands.

The Dogs: On one side are the chimneys—a series of vertical, sun-streaked shafts—to a depth of 40 feet. While there are nice stands of corals and good fish populations as well, it is the memory of diagonal sun rays cutting through the dramatic chimney formations that best defines The Dogs.

The Baths: These are characterized by the massive granite boulders which comprise both the topside and underwater terrain. Because The Baths are shallow and subject to strong surge, they are best dived only during ideal conditions. However, they are one of the more famous attractions in the BVIs, and the *Bird* includes The Baths in the itinerary whenever possible.

The wreck of the *Rhone*: This is the most famous dive in the British Virgin Islands, and even though I've been on the wreck many times, I find it utterly fascinating. Driven onto the rocks off Salt Island by a hurricane in 1867, the *Rhone* sits in three major sections on the ocean floor. The *Bird* generally dives the bow section early in the morning as this is the deepest and most dramatic portion of the wreck. The foremast and crow's nest are easily identifiable, as are the bowsprit, ribs, and numerous hatches and port-holes. Schooling fish swarm within her holds and blotches of *Tubastrea* adorn her throughout.

The mid-section and stern are generally reserved for later in the day, following a reasonable surface interval. This, of course, is the beauty of the live-aboard concept. When the tables

indicate you can dive safely, the crew of the *Bird* is there to assist you into the water. With a dive site like the *Rhone* where there is so much to see, the additional in-water time afforded by a live-aboard boat is welcome.

The mid-section sits in 60-70 feet of water and features exposed ribs with magnificent soft coral encrustation, a massive winch, and a set of huge wrenches welded to the deck by electrolysis. The stern sits in 30 feet of water and is distinguished by tortured, twisted metal bearing mute testimony to the fury of the sea.

Of course, these are but a small representation of the total variety of unlimited diving experienced on a *Tropic Bird* cruise. There is no absolute itinerary as it varies with weather conditions and the wishes of the group. Perhaps the only constants are a friendly, courteous crew and a comfortable, functional diver support vessel. The British Virgin Islands are a very special place of great beauty and hospitality. The M/V *Tropic Bird* is an economical, effective way to get the most from your BVI diving vacation.

To get to Tortola to board the *Tropic Bird* we found an Eastern flight from Miami to San Juan, connecting with an Air BVI flight to the Beef Island airport, was the most expedient. For more information or reservations, please contact Scuba Tours, P.O. Box G, Five Paterson Avenue, Little Falls, NJ 07424; or phone toll free (800) 526-1394. In New Jersey phone (201) 256-9115. >



Photograph by Jim and Cathy Church

A fantastic variety of excellent dive sites by day. A fantastic variety of restaurants and clubs by night. For a copy of our 24-page Dive Guide, write: United States Virgin Islands Division of Tourism, P.O. Box 471269, Miami, FL 33152.

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PAPUA NEW GUINEA

The Waikiki Aquarium is sponsoring a guided diving and snorkeling tour, departing August 8, to Papua New Guinea. The tour will focus on the colorful cultures and rich marine life of the area. The itinerary includes diving the Bismarck Sea, paddling the Sepik River, staying one night in a native village and flying to the highlands to visit the Baiyer River Wildlife Sanctuary.

For information write ED-U-Dive, Inc., P.O. Box 724, Libby, MT 59923. ✉

FREE POCKET GUIDE

SKIN DIVER Magazine is making a special, limited, 30 day introductory offer of its newly published *Pocket Guide to Dive Stores*. Readers can obtain a free copy by writing to the magazine.

The compact, three by six inch book is designed to fit in a shirt pocket and be carried on dive trips. It contains 36 pages of dive store listings by state, plus overseas resort islands. The *Pocket Guide* is a handy reference for finding the addresses and phone numbers of hundreds of dive stores, plus information on air fills, repairs, trips and other dive services.

In order to obtain your personal copy

of the *Dive Store Pocket Guide*, send a self-addressed, stamped envelope to: Bob Alonzi, SKIN DIVER, Direct Response Advertising, P.O. Box 69910, Los

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Angeles, California 90069. This offer is limited to one copy per request and expires June 1. ✉

STROBE WARRANTY

Graflex/Subsea Corporation now has a two year limited factory warranty on all new Mark 30, Mark 100, Mark 150 and Mark 225 XL underwater strobes. The new warranty covers those strobes manufactured by Graflex/Subsea Corporation and shipped to the dealer by January 13, 1984. All other Subsea strobes are protected by the former one year parts and labor, limited warranty. ✉

U/W TREASURE HUNT

Rick's Sixth Annual Underwater Treasure Hunt will be held in Lake Ouachita, Arkansas June 10. The hunt is conducted in a roped area of the lake extending about 300 yards (and not beyond a depth of 25 feet). Fifty treasure ships lie waiting in this area to be discovered by the divers. Numbers on the ships correspond to prizes which represent more than \$2,500. The grand prize is a one week diving trip to the Caribbean.

The entry fee is \$20 and includes a souvenir T-shirt. For more information and entry blanks, call or write Rick's Pro Dive 'n Ski Shop, 4701 J.F.K. Blvd., North Little Rock, Arkansas 72116; phone (501) 753-6004. ✉



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AUSTRALIA PACKAGES

Sea Safaris Travel is promoting several new dive packages to Australia in conjunction with Qantas' inaugural flight into Cairns. Dive boat charter packages include roundtrip air travel to Townsville, eight days onboard the *Divemaster*, all meals, unlimited diving and four nights' accommodations in Cairns.

CAYMAN AIRWAYS/ PAN AM

Cayman Airways, the national airline of the Cayman Islands, has become a part of Pan American Airways' WorldPass program of travel bonuses for frequent travelers. Cayman Airways flies between Grand Cayman and Miami; Houston; Kingston, Jamaica; and the sister islands of Cayman Brac and Little Cayman. The airline will be providing service to the Turks and Caicos Islands beginning December 19.

Any WorldPass member may accumulate credits toward many bonuses, including free trips and reduced rate tickets on Pan Am and Cayman Airways by flying on both.

Members of Cayman Airways' Sir Turtle Club, an exclusive club for frequent travelers living in the Cayman Islands, automatically become WorldPass members. Others may join for the regular Pan Am charge of \$25. New members receive an initial 5,000 mile credit to their account.

ANTHONY'S KEY PACKAGES

Anthony's Key Resort on Roatan will offer two dive packages for summer guests. The Long Weekend Diver includes four nights at the resort, three days of unlimited diving, sailboarding, horseback riding and sailing, all meals, taxes and transfers. The Longer Weekend Diver includes all of the above, plus an extra night at the resort and an extra day of unlimited diving. Both packages are available from June 1-Oct. 15.

TROPIC BIRD

Mike Bloss, captain of the 98 foot motor vessel *Tropic Bird*, has logged over 7,000 dives in the waters of the British Virgin Islands. According to Bloss, "We offer unlimited diving and my crew gives divers the most for their diving and vacation dollar." Divers and non-divers enjoy 12 double air-conditioned staterooms, sundecks, sauna, aft-saloon, bar and pub, stereo, video movies, all meals, plus day and night diving. A highlight of diving in the British Virgin Islands is exploring the wreck of the *Rhone*.

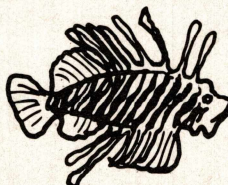


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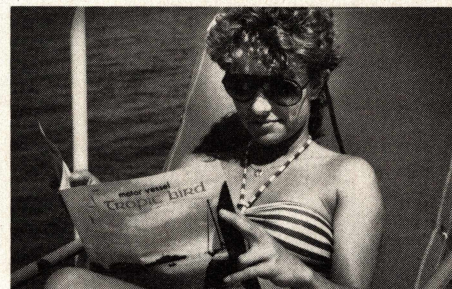
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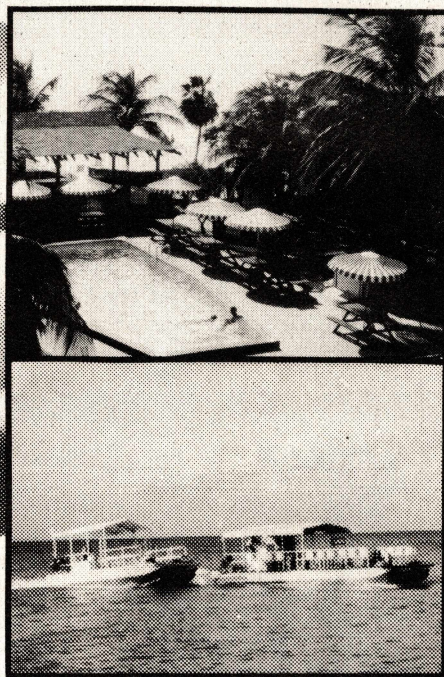
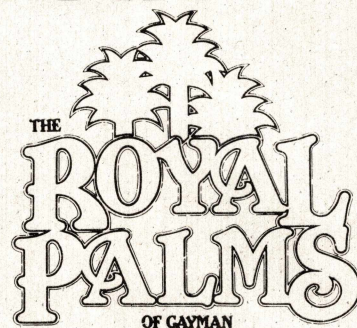
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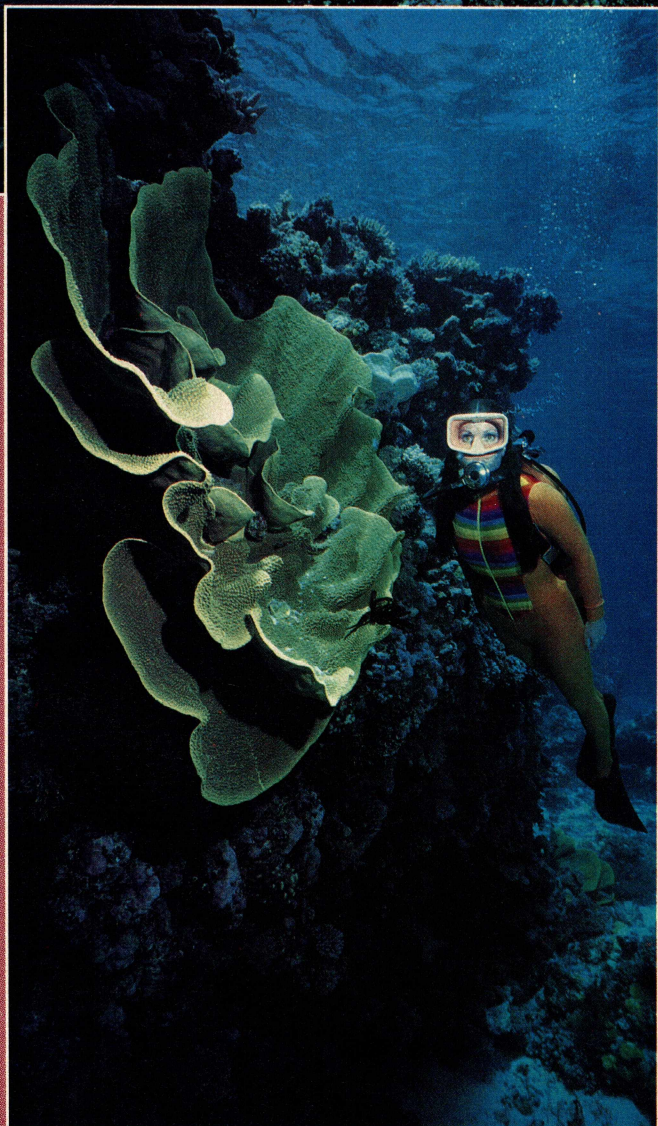
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TEXT AND PHOTOGRAPHY BY CARL ROESSLER



CORAL SEA

I just returned from a dive trip in the Coral Sea and now I have a terrible problem. When I go back next time, should I take the Northern Grand Tour or the Southern Grand Tour? Let me explain the problem, and perhaps you can help me.

You see, in October I always go to the Coral Sea, I have since 1972. Anyway, this past October I decided to inaugurate See & Sea Travel's Northern Grand Tour. I've taken groups on our Southern Grand Tour to Marion Reef for years and I wanted to see what might be new on the reefs 200 miles to the north.

To begin this new adventure, I arrived with our group of diver/photographers in beautiful Sydney; for two days we sampled the myriad delights of that marvelous city. We enjoyed a superb tasting of Australia's great wines, visited the opera house, shopped for opals, rode to the top of the new Sydney Tower and, in general, had a ball.

As it came time to go north to Cairns in Queensland, everyone had the same questions: How's the weather? Are the crossings going to be rough? (Our divers knew that we would cover several hundred miles of ocean on this cruise.)

In any event, we arrived in Cairns on a glorious, cloudless day, and for the next ten diving days we never saw a wave. It was absolutely and wondrously calm throughout the entire trip.

The first night we headed out through the Great Barrier Reef and awoke the next day at Holmes Reef. Two dive sites here yielded big schools of horse-eye jacks swirling and dancing around us. Everyone got his/her camera gear organized. By the end of the day we were ready for anything. Dinner was a babble of individual experiences and encounters with marine creatures.

After an eight hour nighttime crossing we awoke the second morning as Captain Kerry of *Reef Explorer* dropped the anchor atop a sheer drop-off at Bougainville Reef. Following a huge breakfast, we hopped into the water and peeled off down the wall. At depths below 100 feet we encountered the first of an epidemic of soft corals which were to characterize this entire northern trip.

Discovering these huge soft coral colonies is a thrill that is hard to express in words. They are extraordinarily subtle, and that subtlety must be savored like a Napoleon brandy. Their outlines are soft, the intricacy of thousands of tiny polyps sharing a common bushy structure. In the half-light of the deep slopes the corals glowed irresistibly. When we put our lights on them they flared in rhapsodic pinks and canary yellows. Sharks, jacks and turtles shared our dives here, but somehow the massive soft corals were the highlight of the reef.

On our second mirror-calm day at Bougainville we cruised around to the normally wave-crashed eastern edge of the atoll. Here we dived on the massive wreckage of the converted liberty ship *Antonio Terrabacchi*. Her huge engine, drive shaft and boiler made fantastic props for a morning of exciting dives.

That night we made another smooth crossing and were roused from slumber as the anchor splashed down on Osprey Reef. Here we would spend several exciting days on a kaleidoscope of reefs and sheer drop-offs.

It's hard to even list the marvels of these walls. There were night dives in lush valleys filled with soft corals, huge nudibranchs and hundreds of eerily-blinking flashlight fish.

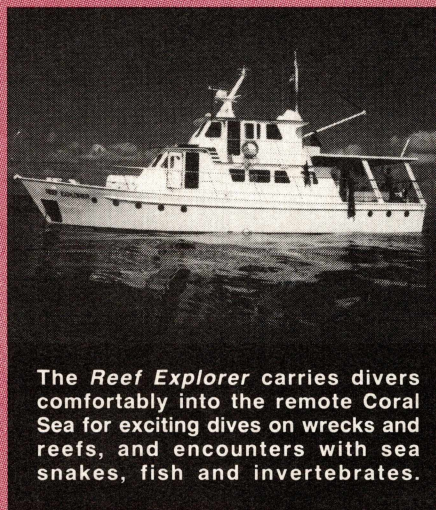
There was the afternoon we played with three manta rays, one of whom even let a client stroke its white underside.

There were three dives at the spectacular site known as North Horn, which bears a spooky resemblance to world-famous Action Point at Marion Reef far to the south. At both of these sites groups of gray and silvertip sharks, numbering 10 to 20 individuals, gathered. At both we feed the sharks for our photographers. At the conclusion of this year's feeding we witnessed a sight which is burned into our memories for a lifetime. As we left the baits to return to *Reef Explorer* we witnessed, from a distance, a frenzy in which 14 sharks, two giant groupers, two seven foot tuna and a sassy moray eel

battled for the leftover baits. Wide-eyed, we watched these animals in a maelstrom of feeding we shall never forget.

To culminate these northern Coral Sea adventures, we spent two days at the renowned Cod Hole. For hours, as many as 15 massive groupers swarmed about us looking for handouts. These bloated sybarites with bulbous bellies are positively comical and they'll try to mouth anything in sight, from a piece of fish to a strobe light to a diver's glove.

When this 12 day parade of delights ended, our divers gathered for a celebratory postmortem. The inevitable question arose: Really, now, which trip is better, this Northern Grand Tour or the long-classic Southern Tour to Marion Reef and the *Yongala* wreck? Which is the world's



The Reef Explorer carries divers comfortably into the remote Coral Sea for exciting dives on wrecks and reefs, and encounters with sea snakes, fish and invertebrates.

greatest diving adventure and why?

Several of us aboard had now done both trips, and we debated *ad nauseam* the wonders of these two great adventures. The conclusion? Alas, gentle reader, in the end all we could conclude was that the two adventures are—well, *different*. Since that night I've turned it over in my mind, because, of course, I have to decide which one to take next time.

Let's take the comparison point by point. There are astonishing parallels, of course. After all, the two areas are only 200 miles apart. The same geologic forces formed both. Yet from a diver's standpoint, there are big differences.

Two incredible world-class match-ups come instantly to mind. Is the Cod Hole as exciting as the *Yongala* wreck? And, which shark arena is better, North Horn at Osprey or Action Point at Marion Reef?

The Cod Hole is certainly the world's finest and easiest opportunity to photograph huge groupers close-up in millpond conditions. The *Yongala* wreck, on the other hand, is like an African watering hole, where all manner of splendid beasties gather under a grand truce. Rays, turtles, guitar sharks, giant sea bass,

schools of batfish, barracuda and cobia fill your senses with awe.

Which is better, though?

When pushed to the wall, I'd grudgingly give the nod by a razor-thin margin to the *Yongala* wreck. In this case, it's the awesome variety of marine life that wins. Still, I'd go back to the Cod Hole next week if I could.

Ok, that's one for the Southern Grand Tour. What about the shark sites?

Well, on my 1982 trip we had 14 gray sharks at Action Point and in 1983 we had 14 grays at North Horn. In 1982, I had a 15 foot hammerhead approach within three feet of me at Action Point in a mind-expanding encounter. In 1983, though, we had the two giant tuna and the two huge groupers fighting the sharks over the bait.

It's a tie.

How about the general diving? Compare the beauty, the richness and variety of close-up subjects. Here's where the profound differences occur. The Northern Grand Tour offers a parade of sheer drop-offs on the *outer* wall of each seamount. It's all wall diving, though there are some lovely shallow reef tops as well. On the Southern Grand Tour there is some outer wall diving, but most of the great dives are on cathedral-like pinnacles rising to the surface in crystal clear, protected lagoons. These pinnacles are covered with fields of crinoids, yellow stony corals and golden gorgonians.

For sheer beauty of reef sites, I personally lean slightly toward the pinnacles at Marion, while the sheer wall sites in the north and south are dead even.

Let's call that a tie in favor of the south.

Oh, my, it is certainly close. What is there that could make the final difference? If you've read my past articles on the Coral Sea, there's one unforgettable sea creature you realize I haven't mentioned yet. Could that one creature provide the margin of victory? Sure could: the sea snakes. I found myself missing them, those sinuous, graceful, steely-eyed relatives of the cobra. They are elegant and sensuous, in ways no other creature in the sea can quite match.

So let's hear it for the sea snakes and a razor-thin decision to take the Southern Grand Tour to Marion and the *Yongala*.

Now, where should I take my own Coral Sea trip in October '84? The decision is obvious, of course. One always sticks with the winner, right?

Of course, it was awfully close. And, I can still recall those huge groupers clustering around at the Cod Hole, and that terrific shark feeding. Perhaps, just perhaps, I'll do both.

For further information on diving programs in the Coral Sea as well as other dive destinations worldwide, contact See & Sea Travel, Inc. at 680 Beach Street, Suite 340/Wharfside, San Francisco, CA 94109. ➤

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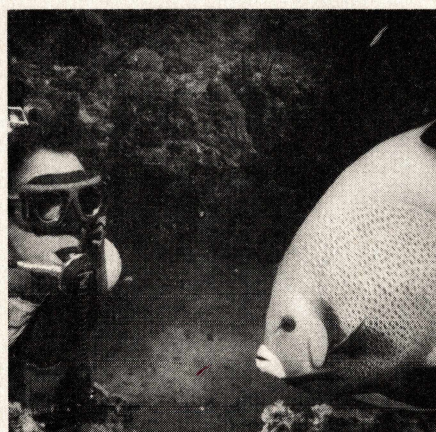
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NAUI DIVES CAYMAN

NAUI Dives Cayman, which takes place from October 13-21 on Grand Cayman, is available for all diving instructors, assistant instructors and divemasters. Special seminars will be presented across the island. Some of the topics include Underwater Movie and Video Use, Tax Deductions for Instructors, Organizing a Dive Tour Package, and many more. Some of the more popular seminars will be repeated throughout the week. Discounts on U.S. air fare, and air fare to Cayman, lodging and diving are available for all participants.

You can attend NAUI Dives Cayman from Friday, Oct. 12 through the following Friday, Oct. 19, or from Sat., Oct. 13, through Sat., Oct. 20, or from Sunday, Oct. 14 through Sunday, Oct. 21. Republic Airlines is the official U.S. carrier, and



photo/Ron and Susan Bangasser

is offering all participants discounts on air fares to Miami or Houston. From these cities, you then fly Cayman Airways, which is also discounting their fares, directly to Cayman Island. When you register for this event, you select your lodging. Some of the styles available include hotels, diving lodges and condos. All participating operations have offered reduced rates. You will also receive a book of six diving tickets that can be used at any participating dive operation. Each excursion includes two dives. Some of the dives will be in conjunction with a seminar. There will be a party for all participants on one of Cayman's beaches.

Kodak is donating one roll of film for each participant. Nikon will hold seminars on the Nikonos camera throughout the week. Also, three day excursion trips to either Little Cayman or Cayman Brac are available immediately following your week on Grand Cayman.

There will be ample time for fantastic spots all around the island. You can dive on a wall with a sheer drop-off encrusted with sponges and corals; in canyons and crevices; on colorful, shallow reefs teeming with life; or on a variety of wrecks.

For more information, contact Susan and Ron Bangasser, 12724 Valley View Lane, Redlands, CA 93273.

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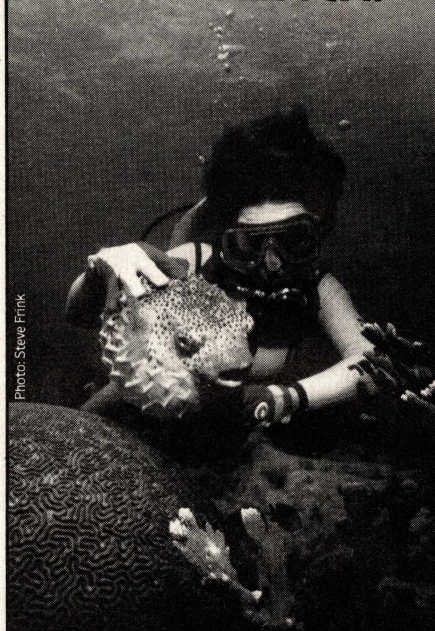


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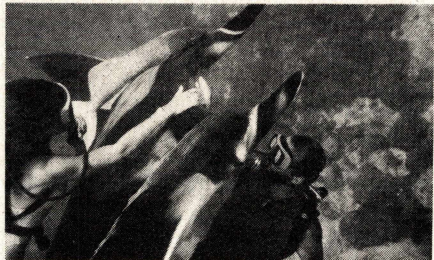
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MCKENNEY CORTEZ TRIPS

Underwater film producers Jack and Sari McKenney will be leading four dive trips to the Sea of Cortez this year. The *Baja Explorador*, owned by Ted Waltham



photo/Bob Abrams

and L.A. McCoy, will be home base. The 120 foot vessel has ten staterooms to accommodate 23 passengers, but the trips are limited to 18 or less. Scuba tanks, air fills, weightbelts and superb cuisine, of course, are provided in the diving package, as are two nights in hotels (one upon arrival and one at the end of the trip).

For information contact Mona Rouse at Expediciones Baja S.A., P.O. Box 8998, Santa Ana, CA 92703. 🐠

BRAC REEF RESORT

The 40 oceanview room Brac Reef Beach Resort opened May 1. The resort will provide all the amenities of a dive vacation property.

The Brac Reef Beach Resort features a modern, fully equipped dive shop and underwater photo processing shop on the premises. Diving is handled by Brac Aquatics, Ltd., under the watchful eye of Winston McDermott.

The resort is on one of the best stretches of powder white beach on Cayman Brac, great for snorkeling, offshore diving, and a full range of watersports. The Brac is also known for its game fishing. The resort is only minutes from the airport. 🐠

POSEIDON NEMROD DIVERS

Poseidon Nemrod Club of Montego Bay, Jamaica has changed its name to Poseidon Nemrod Divers Ltd. This dive operation, at the Chalet Caribe Hotel, is owned and managed by Theo and Hannie Smit. They have installed a second Bauer compressor to meet increasing demand, as well as the start of the first Jamaica Underwater Video Center. The video will be used for training, rental and production of U/W movies.

The Chalet Caribe Hotel has appointed Norman Gentles as general manager.

The Chalet Caribe Hotel, in conjunction with Poseidon Nemrod Divers, offers a Summer Special dive package. It includes eight days/seven nights (based on double occupancy) accommodations, breakfast and dinner, all taxes and gratuities and 10 dives. This offer will end October 31. 🐠




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Photo/Greg Brown

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SCUBACAMP ON GRAND CAYMAN

Scubacamp, a diving education program for teenagers, will be operating this summer on Grand Cayman Island for its 17th season. For teens, ages 12-17, the Scubacamp program offers four levels of NAUI certification, marine and tropical biology and field trips devoted to both the natural and cultural history of the island. South Cove Resort will host the Scubacamp program July 7-28.

A program for adults and families, featuring the NAUI basic certification course and NAUI divemaster course, will follow the teen session at South Cove, July 29 through August 12.

SCARR/LA MER TO RED SEA

La Mer Diving Seafari, Inc. is offering an expedition to the Red Sea October 9-24 featuring Dee Scarr of Bonaire's Touch the Sea program. Scarr will share her extensive knowledge of underwater photography and marine animal behavior with La Mer participants on the live-aboard, 75 foot, private yacht, *Lady Jenny III*. This vessel is specially equipped for diving with two compressors, 20 aluminum 80 tanks, two support dinghies, five air-conditioned double cabins and Polaroid color processing.

The guests will experience 10 days of unlimited diving, from Ras Muhammed and the Tiran Straits to new and remote sites in the heart of the Red Sea, plus land touring of Israel and Egypt. Space is limited to nine participants.

AQUA ADVENTURES

Aqua Adventures is offering a series of dive vacation packages to the Bahamas Family Islands. Featured resorts are Small Hope Bay on Andros, Valentines Yacht Club & Dive Center on Harbour Island, Eleuthera, and Walker's Cay Resort on Walker's Cay, Abacos.

SOUTH COVE

Casa Bertmar, a Cayman diving and fishing resort, has a new owner, a new look and a new name—South Cove.

One mile south of Georgetown, South Cove is noted for its shore diving. This is combined with the full-service dive center, a photo center and a boat slip.

Not all has changed, however. Captain Wayne (Hasson) has remained, now the hotel manager and Anne Davis is the resident photo pro.

For guests at Spanish Cove, reciprocal privileges open up the shore diving at South Cove and guests at South Cove may be enticed to Spanish Cove to experience a dive on the North Wall, minutes away from Spanish Cove's docks.

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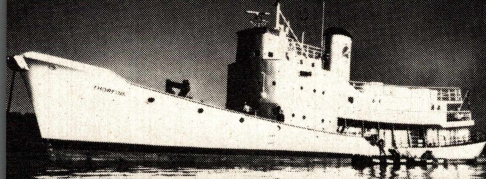
The Reef Explorer in waters of the Coral Sea. The Sta Reta in Fiji.

Colona II offers you the Red Sea.



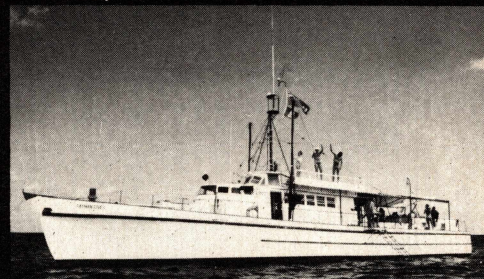
The Thor Finn in Truk Lagoon/Ponape.

Explore the Galapagos on the Encantada.



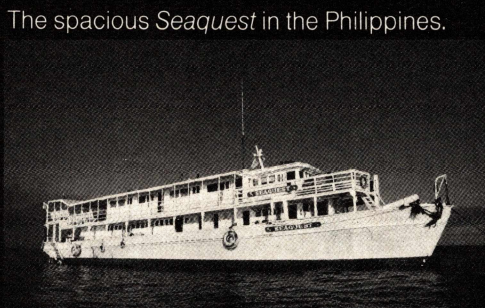
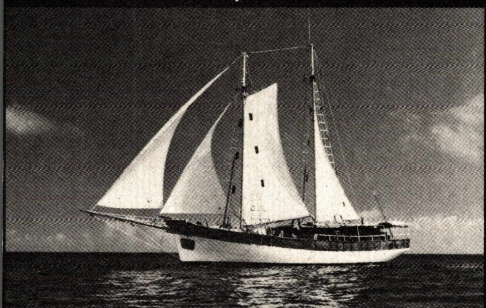
The Carriba at anchor in the Virgin Islands.

The 83 foot Cayman Diver in the Cayman Islands.



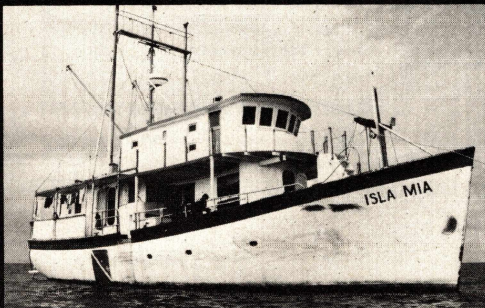
La Belle Vue in the Seychelles.

The spacious Sequest in the Philippines.



The Sir Cloudesley Shovell in the Turks & Caicos Islands.

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MAHOGANY RUN

Mahogany Run, a golf and tennis resort on St. Thomas, USVI, has a special summer dive package. Rates run from May 1 through December 19, and are based on the European plan (room only).

The dive package includes choice of scuba class or snorkel tour, roundtrip airport transfers, welcome cocktail and island tour. In addition, guests may take advantage of any of Mahogany Run's resort amenities, including an 18 hole championship golf course, tennis courts, swimming and gourmet dining.

CHEECA LODGE

Cheeca Lodge, in the Florida Keys, has added a complimentary new activity for its guests. According to Harry Galloway, vice-president and general manager, Cheeca guests now may sign up for a three hour snorkeling trip every Monday, Wednesday and Friday morning on *Buddy's Dive Boat* out of Bud 'n Mary's Marina in Islamorada. The dive boat will pick up Cheeca guests at 9:30 am at the resort's 500 foot fishing pier, visit the coral reefs on the oceanside of the island for snorkeling and return to the resort about noon. All snorkeling equipment, including wetsuits, will be provided.

The boat, a 34 foot custom Crusader, will accommodate 22 people in addition to a crew of three.

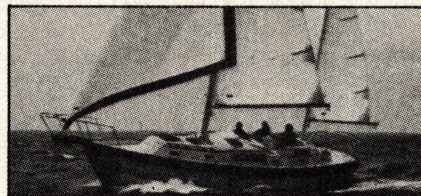
Cheeca Lodge is a complete resort on 25 landscaped acres facing the Atlantic Ocean. In addition to 86 guest units, Cheeca includes a nine hole executive golf course, four lighted, all-weather tennis courts, freshwater swimming pool, fishing pier, two spas, golf driving range, pro shop, game rooms and children's playground. There is gourmet dining and a lounge with nightly entertainment.

SUNSET HOUSE

Sunset House on Grand Cayman, has recently expanded its instructional program. There is now a wide range of courses from resort to advanced diver and specialty (i.e. night diving, deep diving, etc.). The dive operation serves as a training facility for PADI, NAUI, YMCA, CMAS and SSI currently, and will soon add NASDS. Among the new courses being offered is a scuba review to serve as a refresher for those with C-cards who have been diving infrequently; a check-out dive referral service for those who have completed all work toward certification except the water work; and an advanced open water course which includes several dives, depending on the agency of certification. Also added to the curriculum is a variety of resort courses offering various combinations of shore and boat dives which can be added to the resort program.

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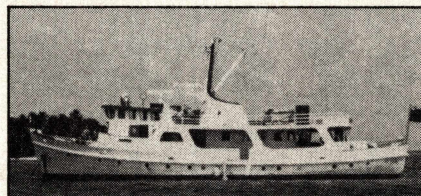
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SUP	259	449	639	179	319	449	159	279	409	149	269	389				
DLX	289	499	709	199	339	489	169	299	429	159	279	399				

EXTRA NIGHT

	SUP	96	96	96	68	68	68	62	62	62	59	59	59	
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EXTRA NIGHT INCLUDES: Room 2-1 Tank Boat Dives. Unlimited offshore diving. Full breakfast.

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DLX	299	479	719	209	319	509	189	289	469	179	279	439				

EXTRA NIGHT

	DLX	116	116	116	86	86	86	79	79	79	76	76	76	
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**DLX- Deluxe

EXTRA NIGHT INCLUDES: Room, 2-1 Tank Boat Dives, Full Breakfast, Dinner, Unlimited Offshore Diving.



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The Royal Palms is a full service resort with 60 rooms in the main section, 40 apartments and 24 rooms in the Coral Wing, and 11 apartments in the adjacent Coral Condominiums. Below: The pool area of the Royal Palms resort.



DIVE with DON FOSTER

Royal Palms Offers Fabulous Beach Resort Living

BY BARBARA A. CURRIE

If you've spent much time in the islands, you've learned to dread the expression "no problem," knowing it means "no action." But on Grand Cayman's west coast is a dive operation whose philosophy of service can be summed up by those two words: no problem.

Don Foster's Dive Grand Cayman Ltd., now one year old, is an excellent example of a dive operation whose emphasis on personalized service has already attracted repeat clientele. Customers find diving with Don Foster's genuinely hassle-free, as one newcomer remarked after her first day: "I felt like queen for a dive. All I had to do was breathe."

The kind of personalized service Don and Jil Foster and their staff provide is a rare treat for experienced divers or novices who like to be pampered and don't feel compelled to prove their prowess by hauling tanks or feel guilty having their gear set up for them. But if effortless diving isn't your style, you'd better forget this operation.

Dive Grand Cayman Ltd. is at the Royal Palms Hotel, with a new branch planned at the recently opened The Falls shop-



photos/Geri Murphy



photo/Barbara Currie

Don Foster's Dive Grand Cayman Ltd. operates three dive boats, including the 26 foot flattop *Adventure Diver* (above). Left: Don and Jil Foster.

ping center on West Bay road across from Le Club Cayman.

Occupying one of the largest stretches of prime beachfront property on Grand Cayman's west coast, the Royal Palms is a full service resort with 60 rooms in the main section, 40 one and two bedroom apartments and 24 rooms in the Coral Wing (formerly the Coral Caymanian Hotel) with an additional 11 apartments in the adjacent Coral Condominiums. Altogether they offer every possible vacation lifestyle and a careful blending of the best qualities of new and old has created a friendly and attentive atmosphere.

Early in 1982, the Kirkconnel family (well known for their business sense and successful shipping and merchant activities in Cayman) purchased the Royal Palms, completely refurbished the property and finally combined its attractions with those of the Coral Caymanian next door, which the family has owned for over a decade. To keep the resort a family operation, the dive concession was taken over by nephew Don Foster, whose 15 years of experience in Cayman's dive industry made him a natural choice.

Late in 1983, the Royal Palms renovations continued with the refurbishing of the Terrace Room Restaurant and introduction of an unusual menu offering such items as duckling and frogs' legs and a reasonably priced, daily luncheon barbecue buffet by the pool.

The large, renovated room which once housed the Island's Inn Theatre Company is now a conference center, seating 150.

While the resort complex was improving and expanding, so was Don Foster's Dive Grand Cayman Ltd. The retail shop has been expanded to include DJ's Boutique, offering an interesting selection of resort wear, imported fashions from Bali and handcrafted jewelry from the islands.

A third dive boat was added to the fleet which now includes two flat-tops, the 26 foot *Adventure Diver*, 36 foot *Undersea Diver* and the custom 34 foot *Wavemaker*, which does double duty as a sport-fishing craft.

Facilities now include a classroom and audio/visual equipment to facilitate the operation's service as a NAUI/PADI/SSI Training Facility. Plans are now being finalized for a branch at The Falls, which will include Foster's Photos and Jil Foster's Bali Fashions boutique. Foster's Photos will offer a complete line of underwater camera gear rental and sales, E-6 processing, photo courses, and new for 1984, a Sony Marinepak underwater video system. Guests will be able to take home a visual record of their dive vacation in Cayman, not only in slides but also in a video cassette.

Foster added another Worthington compressor and increased the storage facilities to accommodate the expanded business. The addition of *Wavemaker* al-



photo/Barbara Currie

Don Foster's Dive Grand Cayman Ltd. offers both resort and full certification courses.

so means he can more easily reach the North Wall during weather that might prevent a flat-top from getting there.

What impresses customers immediately goes beyond the personal, friendly service they receive while signing up for dive trips in DJ's retail shop or Don's off-beat wit when describing the day's dive plan. This is an operation whose onshore facilities match the quality of Cayman's offshore attractions. It's large enough to provide every amenity, but small enough to offer personalized service.

Dive Grand Cayman Ltd. caters especially to underwater photographers and sites are selected according to weather conditions and divers' specific interests. Dramatic wall dives exist within a short 10-20 minute ride, offering wide angle enthusiasts awesome panoramas of opaque blue seaspace.

One of Foster's favorite sites is Sentinel Rock, a 10 minute trip from Royal Palms beach. This is a huge outcropping, a fusion of different hard corals, which rises like a monument from 175 to 95 feet on the edge of the drop-off. It is the convention center for a menagerie of marine life including basket sponges, colorful yellow and green tube sponges, swarms of tropicals and occasional pelagics such as green sea turtles. Schools of deep water snapper frequent this site, something seldom seen by divers.

Of course, Cayman has many fine shallow reefs, allowing maximum bottom time in 25-40 feet for macro photography and fish feeding sessions. Foster is partial to sites such as The Aquarium, where plentiful fish life and abundant "little stuff" will entertain divers.

In addition to morning two tank, afternoon one tank and night dives at least once a week, Dive Grand Cayman Ltd. al-

so offers resort and full certification courses. Both Don and Jil are instructors; Don holds NAUI, PADI and SSI ratings and Jil, SSI. Particularly noteworthy on their staff is Ollen Miller, only the third Caymanian to complete his instructor training since the dive industry started here a decade ago. Ollen assists with resort and certification courses.

Cheryl Hamilton is a recent addition to the staff and acts as both divemaster and front desk manager at DJ's retail shop, in the Royal Palms lobby.

Dive Grand Cayman Ltd. can also book a variety of activities for non-diving vacationers, including half or full day charters on *Wavemaker* for sportfishing in Cayman waters—a new development in the islands' tourism industry which is attracting international attention. During June 1984, *Wavemaker* will be available for charter during the month long activities of Million Dollar Month during which the first angler to break the existing IGFA all tackle record for Atlantic blue marlin will win \$1,000,000 cash (U.S.) and a number of fabulous prizes—but the billfish must be caught in Cayman waters.

Grand Cayman offers divers a world of excitement and Dive Grand Cayman Ltd. works to show divers the best of that world as effortlessly as possible. Every available vacation option is offered onshore, from the quiet beachfront rooms of the Coral Wing and ocean or pool-view rooms of the Royal Palms, to the privacy and convenience of condominium units on both properties. Here, divers can have a Cayman vacation any way they want it. No problem!

For information on Don Foster's Grand Cayman Ltd. at the Royal Palms contact: P.O. Box 151, Grand Cayman; (809) 949-5679 /4054. >

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DIVE TRAVEL TIPS

BY BRUCE BOWKER

How many vacations turn out exactly as you expected them to? Sometimes people expect too much and are very disappointed when not everything goes as planned.

Going on a diving vacation to some distant Caribbean island is not as easy as getting on an airplane. There is a great deal of preparation involved. But, there is another thing that can make a vacation much better and safer, from a personal point of view. That is attitude. If you leave home expecting an island to be at least as pretty as the travel poster, be prepared. Those beautiful palm leaves shading your private balcony could very well be placed there by the photographer's assistant. And, that muscular man and gorgeously tanned blond woman are both probably models; the photo of the dive shop's brand new rack of tanks might have been taken eight years ago.

This is not always the case, but it can make for some disappointing first impressions. One way to avoid this is to select a destination that friends have been to recently and can confirm is as the brochures claim.

Many divers enjoy trying a new spot. This can be risky but also very exciting and rewarding. Trying an unknown location demands a certain attitude. It is very important to expect things to be different. Optional plans, such as packing up and going to another place, or perhaps making a different type of vacation, should be well thought out before getting on the plane. Any vacation must have options regardless of where you go. Planning an exact, nonflexible itinerary with no margins for any changes has made many people very unhappy for their entire trip.

Another dangerous, but too common attitude is to expect one island to operate just like another. Too many times a diver is overheard saying, "But that's the way they do it on . . ." Or, even worse, "We don't do it like that back home." The fact that things are not like back home or elsewhere makes a vacation interesting, perhaps inspiring and educational.

Contrary to the promises of many travel agents, it does rain, and there are storms, in the Caribbean. Planning a vacation around 24 hours and seven days a week


of sunshine can lead to a most disappointing time. If it rains, go diving. You get wet anyhow. Just bring something to dry off with after the dive and a sweatshirt to keep warm. It is surprising how chilly the tropics can get when the sun is not out. Besides, there are also many things to do indoors or under a beach umbrella.

If you are traveling with a large group, make sure your leader is competent and not just along for a free ride. One absolutely perfect dive trip came to a most ragged conclusion because the leader forgot to reconfirm everyone's airline tickets back home. Even if you are alone, make sure your travel plans are confirmed. There are not too many ways to make the end of a vacation worse than sleeping in an airport.

More and more divers are going on vacations to take pictures underwater. If your entire dive vacation revolves around a camera, you had better seriously think about carrying spares of everything. How many times have divers been almost in tears because their camera or strobe flooded? If spares are not financially possible, try to arrange to stay near a place where repairs or rental equipment are available. There are at least two strobe companies that now keep their units at resorts available to the distressed photographer as temporary replacements. (This is providing you were using their unit when the problem occurred.) Should replacements not be available, try taking pictures topside with your land camera. If you cannot take wide angle shots because that lens is out of commission, try close-ups or vice versa. No strobe anymore? Available light can give some very nice results. If you limit yourself to one very specific type of underwater photography you are limiting your chances of that 100 percent wonderful vacation.

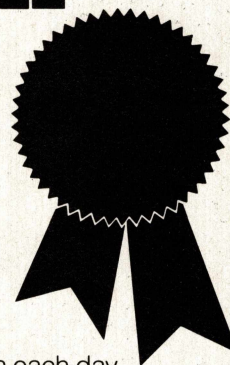
Personalities can conflict anywhere and no place could be worse than on a dive boat—especially if you are living on it for a week or more. Before you make a definite commitment it might be a good idea to meditate for awhile, clear your head and get ready to have a good time regardless of how obnoxious one of the other guests might be. Many perfect vacations have been dashed on the rocks by just one person. Sometimes being just good and blunt about your feelings will straighten the problems out. Or, simply ignore the person and carry on.

Resort personalities can be equally as bad but at least it is easier to get away from them awhile on an island. A place with a good selection of dive operators can eliminate this problem.

A vacation must be a vacation, something where you can relax and do what you want; not something to which you bring all your worries and anxieties. Don't carry a suitcase full of great expectations—just a few clothes, your dive gear and an attitude that no matter what happens there will still be something to do that is fun. 

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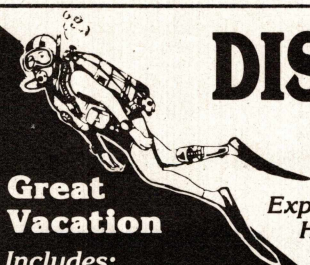


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MACROS

TEXT AND PHOTOGRAPHY
BY HARLEY J. SEELEY

Imagine this scenario: You feel like a dive—maybe a few photos. So you go to the local site, don a full wetsuit, walk into the water—muck up past your ankles (worse as you go deeper)—and see jungles of ungainly weeds, shadows for fish, visibility of five to ten feet, an anchor or fishing lures or an old bottle for excitement; almost nothing worth a photograph. Sound familiar? This is a pretty typical dive if you don't happen to live near a coastline and the nearest lake is the most expedient way of getting wet. But, then again, there must be something down there. Maybe it's simply a matter of seeing it.

And, so, we come to understand that one of the basic concepts of underwater photography is to get in close, thus eliminating as much water and subsequent murk as possible from between the camera and the subject. Close-up or macro



photography is the best application of this idea. And, upon working in this manner, it becomes obvious that the technique makes all but the worst water clear and allows for beautiful photography.

But, first, try to think and see in different terms—in macro terms. Think small. It is easy to jump in a lake, swim about, generally not see much and end up disappointed. Inland lakes, on a broad view, tend to be monochromatic (with varying hues and tints) and not terribly attractive. But, each underwater landscape has its own life—most of it being small.

Swim slowly, close to the bottom, but don't muck up the water. (This is very important. Many subjects are touchy and take some time before you'll be able to shoot them. During this time, the water you've stirred up behind you will catch up and obscure the subject sufficiently to annoy all but the most stoic photographer.) Generally 5-15 feet seems to be the depth range with the most diversity of animal life and plant growth. Learn to look at

everything closely, explore the weeds and rocks that little creatures hide in. See the plant life, not as ugly weeds, but as subjects and think of how they might photograph. Forget the panoramic views, complete with female diver and fish. Leave that for warm, tropical waters.

Not much equipment is needed. A housed SLR is good because of its precise focusing and framing capabilities. A standard 50 mm lens with close-up diopters is perfectly adequate for all but extreme magnifications. Diopters typically come in sets of three (+1, +2 and +4) which allow different shooting distances. Since diopters screw into the filter threads in the front of your lens, they only allow a limited amount of distance variation (unlike a macro lens which can function at its true focal length as well as its full macro capability, but an appropriate macro port is needed on housed cameras). Because diopters don't change the lens to film plane distance, they won't affect exposure.


For simplicity of focus and framing, the Nikonos can't be beat. There are two sys-



tems, one using a specially designed close-up supplementary lens (basically a modified diopter) and another using extension tubes. Both systems utilize wire framers that correspond to the area being photographed, so that it is a matter of merely butting the framer up to your subject and shooting.

A strobe is essential. Existing light will not give you good color rendition nor an adequate f stop for maximum depth of field. Even a moderately powered surface strobe will provide ample light for f stops of 11 to 22.

Standardization and familiarization with your equipment and materials will breed competence and confidence so that your system will become automatic—a matter of frame and focus.

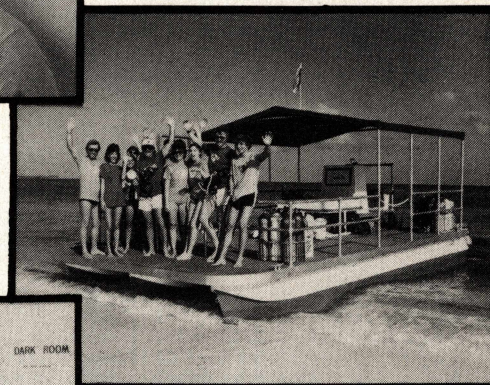
Now, jump in a lake, swim about, look and see yet another world and bring a part of it home. May you have great patience and good luck in finding a buddy willing to let you spend your dive in a 20 square foot area chasing small fish. 

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by Norman H. Jacobsen

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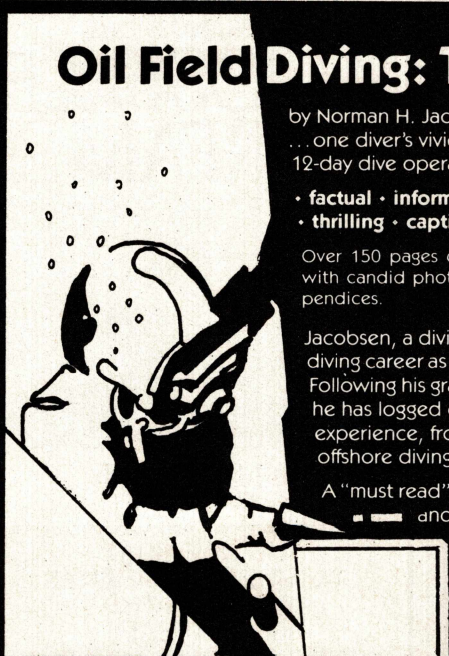
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FONDA/WALKER'S CAY

Actress Jane Fonda recently took diving lessons at Walker's Cay Hotel and Marina, Abaco, Bahamas. Fonda, her husband Senator Tom Hayden and their children vacationed at Walker's. While Fonda became certified, Senator Hayden fished—making nice catches of wahoo, grouper and barracuda.

DIVE BONAIRE BOAT

Peter Hughes' Dive Bonaire has added a seventh boat to its fleet. *Horizons Too* is a 31 foot monohull, the first diesel powered dive boat on the island.

Craig Burns, the manager at Dive Bonaire at the Flamingo Beach Hotel, says



the 225 hp boat will hold 10 divers and be used for "all day trips to Washington Park that would take longer to reach on our flattops. The boat will also be an added attraction to repeat guests who have dived every site on the island and are now looking for someplace new and unexplored. And, of course we will use this faster boat to take our more experienced divers to the Windjammer Wreck at the northern end of Bonaire."

AQUA-FUN ADVENTURES

Aqua-Fun Adventures Inc., is offering snorkeling and diving excursions aboard the 24,500 ton S.S. *Rhapsody* visiting Ocho Rios, Jamaica, Grand Cayman Island and Cozumel, Mexico.

The program, operated in cooperation with Paquet Cruises Inc., includes snorkel sightseeing in all three ports of call, instruction, supervision, all equipment, a marine life tour from two PADI certified onboard instructors, a souvenir Paquet Plongeur T-shirt, underwater fish identification card and membership in Club Paquet Plongeur. For the snorkeling enthusiast, a discounted two port and three port safari package is also available.

For certified divers, there are dives in each port of call. These include all equipment (mask, fins, BC, tank, regulator, weightbelt and weights), boat and dive-master guide. A scuba excursion for non-certified divers is also available in Jamaica and Grand Cayman.

On the May 6 and May 13 cruises a marine and sea life theme will be featured with films and lectures by various marine experts, treasure hunters and underwater photographers.

PHOTO SAFARIS

Sea Safaris Travel, Inc. has begun a series of Photo Safaris with Marty Snyderman. The first dates are September 9-15 and September 16-22 for Photo Safaris to La Paz, Baja California, Mexico.

The second set of dates are September 29-October 6 and October 6-13. On these dates, the program will be held at La Ceiba Beach Hotel, Cozumel, Mexico. The program itself is going to provide hands-on experience and personalized attention. Course content includes: introduction, care of equipment, people pictures, critter pictures, strobe techniques, silhouettes and much more. Emphasis is going to be on the Nikonos system. 🌊

FLORIDA BROCHURE

Lady Cyana Divers and Stephen Frink Photographic have combined forces to publish a brochure capturing the highlights of diving the Islamorada area and the Upper Keys aboard the 40 foot Coast Guard inspected *Lady Cyana*. Included in



photo/Stephen Frink

the publication is a description of the services provided by Lady Cyana Divers and a brief history of Lady Cyana, thought to be the first woman diver in recorded history.

Divers visiting this area should note that a two reale silver coin from the wreck of the Spanish galleon, *El Enfante* (which sank in a hurricane during 1733) has been recovered. *El Enfante* was one of 19 ships of the Spanish Plate Fleet destroyed by the same storm in the Islamorada area. The coin was recovered on a dive trip aboard the *Lady Cyana* in September. Although the coin had spent the last 250 years at the bottom of the sea, mint markings were still discernible through the encrusted coral, attesting to the coin's authenticity.

According to captains Joanie Follmer and Ken Wright, owners and operators of the *Lady Cyana*, the *El Capitan*, another member of the Spanish Plate Fleet was extensively uncovered during the past summer and much of the wreck's structural timbers and ballast piles are now exposed. Among the artifacts recovered from both wrecks recently are cannonballs, spikes and nails, musketballs, assorted pieces of pottery, several coins and an eight pound bronze cannon. 🌊

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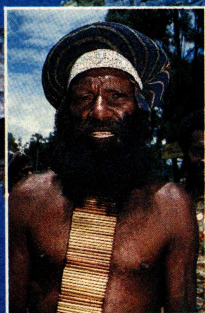
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PAPUA NEW GUINEA



TEXT AND PHOTOGRAPHY BY MARTY SNYDERMAN

The man wore only a loincloth and arse grass over his backside as he walked across the street in mid-town Mt. Hagen, a noted community in the Highlands region of Papua New Guinea. He was clearly on his way to work. I could tell because he had a briefcase in his left hand. His companion was wearing traditional attire as well, but he donned a bright red cap which read St. Louis Cardinals, 1982 World Series Champions. Picture that scene in your mind's eye if you can.

Other than the fascinating images from the world class diving, that mo-

ment at the street corner represents my most vivid memory from my recent trip to Papua New Guinea. It is a nation whose people and cultures have gone from the state of primitive man straight into the 20th century. In essence they never experienced the enlightening eras of the Renaissance and the Industrial Age. They are going directly from the bush, or jungle, to the computer. If you grew up in the western world, Papua New Guinea is truly the "last unknown." It is a country in a time and place that arouses the anthropologist in all of us.

In the game of comparing international travel destinations, Papua New Guinea (PNG) ranks near the top of the list. There are easily as many reasons to visit this South Pacific wonderland as any place I have ever been. For starters, the diving equals the best in the South Pacific. I know that statement is a mouthful, but the diving can generally be described as unforgettable seascapes in warm, clear, virgin waters that are absolutely loaded with exotic marine life. An almost uncountable number of dive sites, only minutes from shore, can claim sheer drop-offs cov-



ered with a kaleidoscopic variety of stunning invertebrates. Soft corals, seafans, crinoids and sponges in every color imaginable are everywhere you look. And, the reefs are alive with lionfish, clownfish in anemones, angels, butterflyfish, bright yellow damsels, triggerfish and bumphead wrasse. Along the walls you experience that special feeling that you just might see anything from a whale shark, to a turtle, to a tuna, to a school of hundreds of barracuda. The list of marine species seems limitless.

In addition, there is some fantastic diving to be enjoyed on numerous ships and airplanes that are artifacts from World War II. In several areas along the northern coast and especially near the town of Rabaul on the island of New Britain, the water is filled with Japanese ships and war planes that met their fiery fate in the decisive battles of WW II. Though more recently discovered and documented, many of the wrecks are equal to the best of Truk Lagoon.

Diving aside, the combination of natural, historical and cultural factors create a travel experience that is guaranteed to appeal to a wide cross section of adventurous travelers. Often called New Guinea by people from the western world, but correctly referred to as Papua New Guinea since its independence in 1975, the country occupies roughly the eastern half of the world's second largest island. Irian Jaya, a part of Indonesia, occupies the western portion. In crude geographical terms PNG lies north of eastern Australia and the Great Barrier Reef, west of the Solomon Islands and just a few degrees south of the equator. The seasons are not

exactly summer and winter, but wet (roughly November through March) and dry (May to October). In the wet season it typically rains only in late afternoon and at night. Land temperatures along the coastal areas are a fairly constant 70 to 80°F and water temperature varies slightly from 82 to 86°F in the north to 75 to 82°F in the south. In the Highlands evening attire usually includes long pants and a sweater, but shorts will usually get you through the days.

Though PNG, including the offshore islands, occupies only 312,000 square miles (approximately the same area as Arkansas and Texas put together), the native population speaks over 700 languages. That is correct, 700 *languages*, not dialects! While the region was referred to as one nation by outsiders, the country was, until recently, comprised of 700 totally different tribes and cultures. In the interior I stood in utter amazement on a hilltop overlooking the Karawari River with Bob Bates, the owner/operator of Trans Niugini Tours, as he pointed out that the three villages we could see from our vantage point spoke entirely different mother tongues. Though the people had exchanged pigs for years as an act of friendship, they were unable to communicate via the spoken word until the introduction of English in the late 1800s. This lack of communication and the virtual absence of a nomadic lifestyle so common in primitive man in other parts of the world has led to an amazing diversity of customs. Certain traditions such as "bride price" in which men pay the family of the bride for the privilege of marriage, and pig exchanges are, however, found



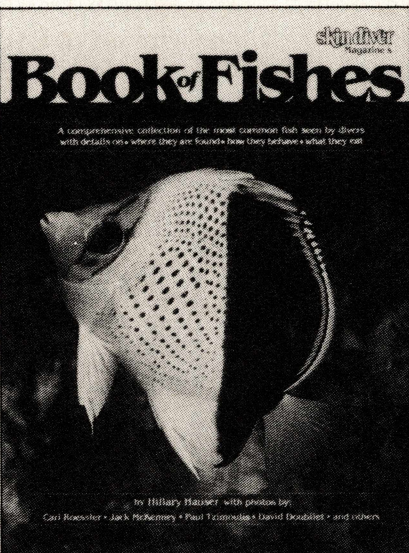
Papua New Guinea diving equals the best in the South Pacific and includes clear water, exotic marine life and relics from World War II. Opposite page: A Japanese biplane provides a surface for invertebrate growth near Rabaul. Top: The tail gun of a B-25 bomber near Madang. Above: An Air Niugini jetliner. Map: Papua New Guinea occupies roughly the eastern half of the world's second largest island.

in many tribes throughout the land.

Though "discovered" centuries earlier by western man, the first significant contact occurred in the late 1800s. In the Highlands people never saw the wheel until the 1930s. That is the astonishing reality of the situation. The influence of the West has been so intense that the official language of the government is pidgin English, a combination of English, German and local languages. The phrases "lukim behind yu" meaning "see you later," "sori nogat wok" for "sorry, no jobs," and "big pela rain" for a heavy rain are all perfectly acceptable examples of the proper use of pidgin. A "big

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The world's leading underwater photographers have been contributing to the Fish of the Month column. Carl Roessler, Paul Tzimoulis, Jack McKenney, David Doubilet, and Chris Newbert are some of the important photographers whose pictures are included.

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PAPUA NEW GUINEA

fellow" is an influential man in a tribe and a "big pela rain" which translates to big fellow rain means it is really going to pour, not just drizzle. What a fun language! Pidgin is great to try, especially if you are good at charades, and the locals delight in seeing you try.

MADANG

Along the northern coast of the mainland, the best diving can be found at Madang. The resort of Jais Aben (resting place) is absolutely delightful. The facilities, from compressors to dive boats to instructor/guides, are all unquestionably first class. I had feared vintage WW II compressors and the like, but this was unwarranted. Resort owners Diane and "Little Jean" Pierret, along with dive guide/instructors Barry Peart and Denise Prigent, have put together a well organized program.

On our first dive at The Quarry I learned a very impressive fact about diving in PNG. In many places you can walk off-shore for 10 or 15 yards over knee deep coral reefs until you get to a drop-off. Take one more step and you'll be on your way down a sheer wall that plummets for several hundred feet. The Quarry dive was exhilarating, to say the least. At Hole in the Wall, another of the Cape Croisilles shore dives, you can swim through a large cave only a few yards from the beach. The cave opens into the Bismark Sea where the reef is loaded with soft corals, seafans, crinoids and a host of interesting photographic subjects. While I shot two rolls of film on my dive at The Hole, I quickly learned that I needed a third as Barry discovered a magnificently colored, yet almost perfectly camouflaged, flat fish in only eight feet of water.

My favorite dives at Madang were the boat dives at Magic Passage, on the wreck of the B-25 Mitchell bomber and the night dive from the dock at Jais Aben. Magic Passage is about 10 minutes by boat from the resort. The pass is a cut in the reef between two sheer walls and filled with schooling fish. In the first 10 minutes of dive number one, I saw schools of tuna, barracuda, snapper and mackerel. Barry and Denise got within touching distance of a green turtle but I never saw it. I was too busy filming the variety of soft corals and seafans.

Not far from Magic Passage lies the wreck of the bomber, a relic of the American war effort. She is in excellent condition. Though the prop is badly mangled, the cockpit, tail gun and tail are all in great shape. Surrounded by schools of fish and covered with invertebrates, the once proud plane is an excellent photographic dive.

And, for night diving enthusiasts the

opportunities are terrific. You can boat dive or just drop in off the dock where a few kicks later you are likely to see any and all of the nightlife of Astrolabe Bay including lionfish, brilliantly colored shrimp, brittlestars and sleeping reef fish.

RABAU

The town of Rabaul is on the Gazelle Peninsula on the island of New Britain in the Bismark Archipelago. New Britain is the largest of PNG's offshore islands. The eastern portion is the part of PNG that has had the longest and most intense contact with the West. By comparison to the mainland and other islands, the locals are considered to be the most sophisticated in a cultural sense and certainly they are the most advanced in terms of international economics. On Simpson Harbor and surrounded by a series of still active volcanoes, Rabaul enjoys the reputation of having one of the most beautiful settings in the South Pacific.

While the scene is breathtaking, it is Rabaul's war history that makes the diving so fascinating. With more than 300 miles of underground tunnels dug into the hillsides by the Japanese to accommodate factories, hospitals, gun emplacements, barracks and the like, the area became the ultimate fortress of the Japanese war machine. Only MacArthur's brilliant strategy enabled him to avoid major ground battles, but with superior air and sea power, allied forces sank over 60 ships and aircraft in and around Simpson Harbor. Though some of the wrecks are a bit deep for sport diving, at least 10 of them are easily accessible. Perhaps the best of these is the *Hakbai Maru*, a 5,114 ton repair and supply vessel. Hit by U.S. bombers, the stern rests in 90 feet where you'll quickly find a coral encrusted cannon to photograph. The bridge is still intact at 100 feet. Tuna, grouper, emperor angels, coral trout, mackerel and occasional turtles swarm over the hull.

Local divers strongly recommend dives on the *Sugar Charlie*, a 400 ton merchant ship and George's Wreck, an unidentified ship resting in St. George's Channel. Both are relatively shallow, in water that is usually clear, and both possess artifacts and marine life that provide interesting dives.

My favorite dives, however, were on the wreck of a Mitsubishi F1M2 biplane and along the wall at the submarine base. I made both of these dives with Peter Miller, a NAUI instructor who runs a very professional dive instructor/tour service appropriately called Rabaul Dive and Tour Service. Peter operates out of the Kaiyuna Hotel which has superb in-town, air-conditioned accommodations, excellent food, two bars and a swimming pool. The biplane, a seaplane used for reconnaissance purposes, is almost totally intact. Code named "Pete" by the allies, the Mitsubishi had a range of 400 miles, a top speed of 235 mph, and were armed with

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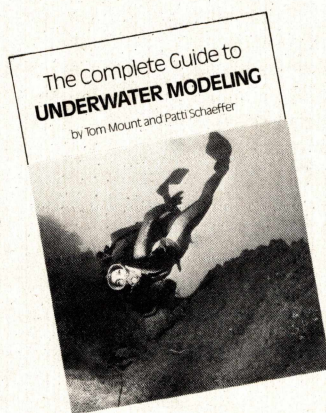
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PAPUA NEW GUINEA

two forward guns, one rear machine gun and one or two bombs. The plane is covered with an array of magnificently colored soft corals, seafans and bright yellow crinoids.

The Sub Base Wall is another of PNG's noted wall dives. So named because of the nearby underground tunnel used to service the subs, the wall can be reached after a short walk offshore. Once again it is one more step over the edge and presto, you are suspended over 300 feet of open sea. Peter and I enjoyed everything from banded sea snakes to seawhips, soft corals, eels, lionfish, a multitude of crinoids and a host of curious pelagic fish schools. Though deep diving opportunities are superb, I never got below 50 feet before running out of film.

PORT MORESBY

Port Moresby, the capital of PNG, is in the Central Province about midway along the southern coastal strip. Though the diving is not as accessible on a year-round basis, Bob and Dinah Halstead of Halstead's Tropical Diving Adventures possess an extensive knowledge of local marine life and are especially helpful when it comes to photographic techniques and shell identification. The Halsteads also lead some exceptional dive tours to Milne Bay, the islands of the Louisiade Archipelago and the Solomon Islands, over Christmas and Easter. Limited to small groups of adventurous divers, these trips provide the opportunity to dive on virgin reefs in some of the best areas of the South Pacific. During the journey you can live aboard the boat or, at times, in the homes of villagers you meet along the way. The trip's central theme, however, is to dive, dive, dive—as much as you want day and night.

THE INTERIOR

After traveling halfway around the world, visiting the interior is almost mandatory. Of course you can't do it all, but two areas which are quite different from each other, almost certainly different from anyplace you have ever been, and which have good accommodations and guided tours, are the Highlands area around Mt. Hagen and the Sepik River region. Prior to the 1930s the Highlands were generally believed to be uninhabited. The people remain closely tied to traditional ways. Many continue to dress in customary clothing and witnessing a "sing-sing," a form of a great costume party and celebration, is a must. Some sing-sings are spontaneous, but at larger pre-planned ones there are hundreds of people from a mixture of villages and each is trying to out-dress everyone else. The rules are anything goes; it is bones in noses,

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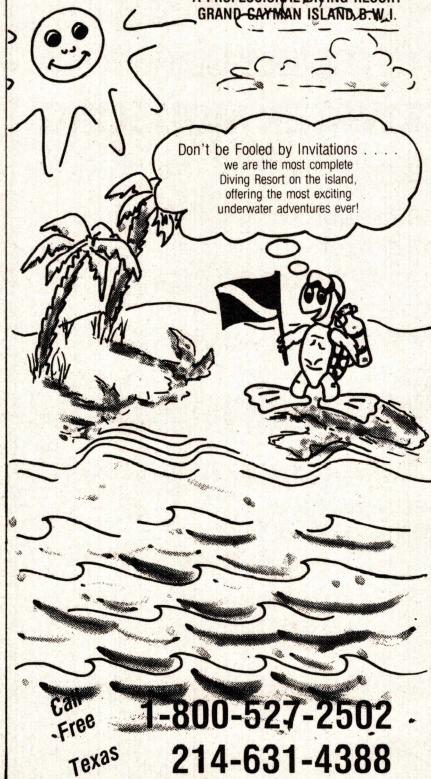
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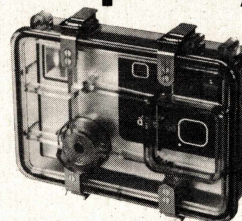
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feathers in hair, necklaces from the teeth of wild animals and body painting galore. As in daily life, visitors are welcomed and the people are extremely friendly.

The main office of Trans Niugini Tours is in Mt. Hagen. From there Bob and Pam Bates run a series of fascinating inland tours that vary from two week long, four wheel drives through the bush, to river exploration in the Sepik River basin. The best of the TNT tours includes a night at the famous Karawari Lodge on the Karawari River, a Sepik tributary. The lodge provides all the necessary creature comforts in a wilderness that is largely unaffected by the arrival of the 20th century. Daily events include river rides and hikes, while nightly plans often encompass river trips to search for "pukpuks," a native word for crocodiles. Visitors can tour the local villages, purchase kwila carvings for which the Sepik people are so famous and enjoy the over 650 species of birds that can be observed in PNG. Though it can be hot and humid along the river, the area remains a cultural treasure.

SOME FINAL THOUGHTS

Like many third world countries, logistics for PNG are somewhat less than perfect. Air Niugini has flights from Fiji, New Zealand, Australia, Singapore, Hong Kong and Manila to PNG. From the U.S., you fly Air Pacific from San Francisco or Los Angeles to Fiji or Australia, then board an Air Niugini flight to Papua New Guinea. I spent the first half of my recent trip with Bob and Nancy French, the owners of Sea Safaris and they know the logistics and operators first hand. Almost all the facilities suggested by Sea Safaris are managed by expatriots from Australia, New Zealand or England and their expertise is evident. That expertise is quite comforting. Though not a trip for those who demand every creature comfort life has to offer, a custom made Sea Safaris tour will provide plenty of thrills. A typical tour includes three or four days diving in Madang, three or four days traveling in the Highlands and along the Sepik, and three or four days at Rabaul.

For further information contact: Sea Safaris, 3770 Highland Ave., Manhattan Beach, CA 90266; (213) 546-2464 (in California) or (800) 821-6670. 🌿

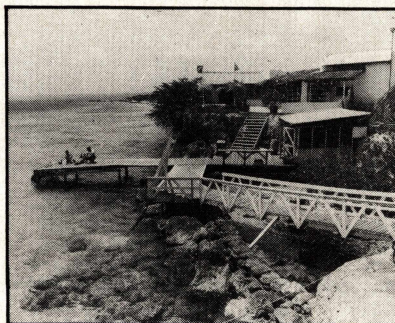
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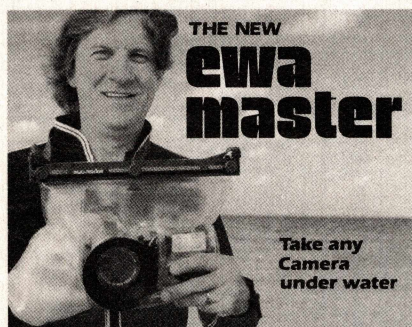
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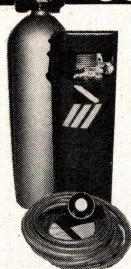
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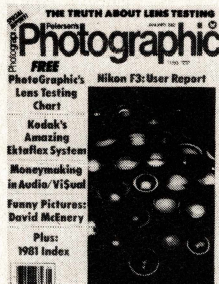
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TEXT AND PHOTOGRAPHY
BY JIM COOLURIS

It was California's underwater social event of the year. More than 100 guests boarded three dive boats: the *Peace*, *Truth* and *Conception*. The guests had been invited to witness the underwater wedding of the owner of the *Peace*, Ron Palmer, and his fiancée, Linda McCullen. The couple had dived together in California. San Salvador, Bonaire and Roatan, so a wedding in the environment they love seemed very appropriate.

The boats left the Island Packers Landing in the Ventura Harbor at 5:00 am for Fish Camp, a popular and protected anchorage at Anacapa Island. Just a few days earlier, wind and rain had ravaged the California coastline and the chances for optimum ocean and weather conditions were doubtful. Anxious guests and skippers were delighted to see the flat ocean with at least 50 feet of visibility underwater. This was a perfect diving day.

After breakfast, the guests suited up to enter the water. The bride and her party exited off the *Truth* and the groom and his party, off the *Peace*. Both bride and groom were wearing custom white wet-suits, specially made for this occasion. The bride had a long veil sewn to her hood; the groom wore a tux shirt and vest



over his suit.

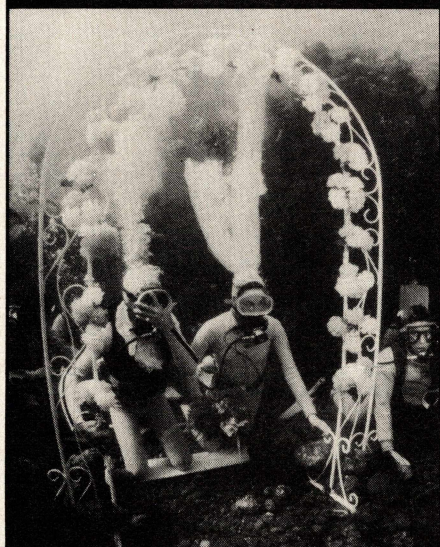
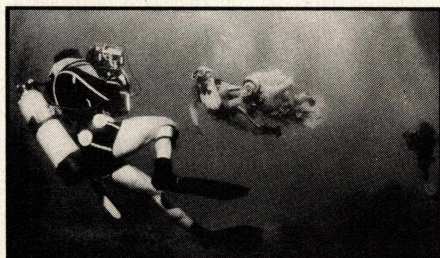
A special flowered arch had been placed on the bottom between two massive rocks so the guests could surround the wedding site and not stir up the bottom. An underwater cameraman used a closed circuit video system to relay the wedding scene to televisions on each of the three boats for non-diving guests.

The diving minister, bride and groom each wore WetPhones for communication while repeating the vows. After the

30 minute ceremony the newlyweds ascended through a flower covered ring.

As soon as the divers were out of the water, the *Peace* and the *Truth* rafted on either side of the *Conception* for the wedding reception. In the spacious galley of the *Conception*, champagne punch flowed from a fountain, while the guests feasted on a splendid banquet.

As if expressly ordered for the occasion, the weather, sea and equipment cooperated completely to make the day highly successful. The event was also covered by a TV crew for the prime time show *That's Incredible* and Ripley's Be-



lieve It Or Not.

The highlight of the afternoon was the unprecedented tossing into the sea of the groom (wearing his topside tux) by Roy Hauser, the owner of the *Truth* and *Conception*, exemplifying the friendly rivalry between these two dive boat operators.

After a leisurely cruise back to the harbor on a flat, calm ocean and under sunny, clear, blue skies, the newlyweds left on their honeymoon for Australia—to dive, of course. ❦

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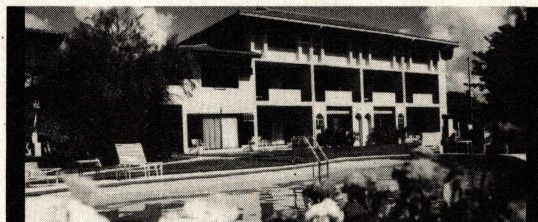
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*Four person occupancy per two bedroom, two bath apartment. April 15, 1984 to Dec 15, 1984.

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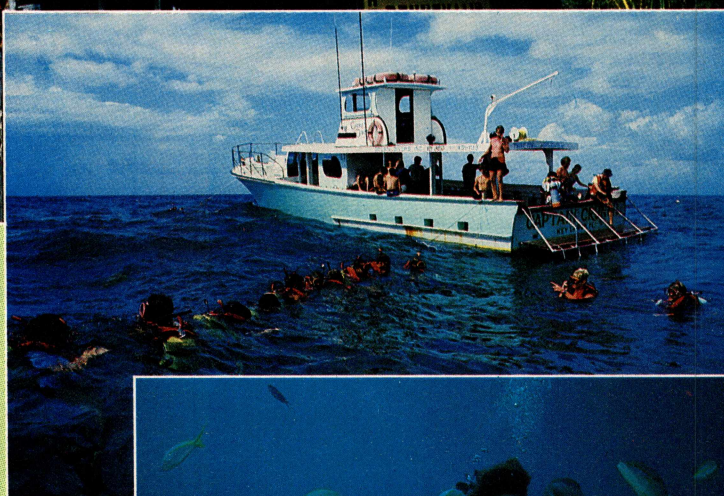
OCEAN DIVERS

Key Largo's Full Service Dive Resort

BY J. RUSSELL SLACK

For nine years I've vacationed at least once a year in Key Largo, Florida to enjoy the spectacular watersports available in John Pennekamp Coral Reef State Park. In those years the community has matured and the services available to the traveling diver have correspondingly improved. For nine years I've dived with Ocean Divers and their growth and success mirrors the evolution of the Florida Keys as an international dive destination.

As with many fledgling businesses, the formative years for Ocean Divers were relatively unsophisticated. The boats were small, six passenger vessels equipped with gasoline engines and minimal creature comforts. The single dive shop was on U.S. 1, the main traffic artery for the Florida Keys. All tanks and dive gear would be loaded on a pickup truck there for transport to the marina. The system was inconvenient but the enthusiasm demonstrated by the principal partners, Joe Clark



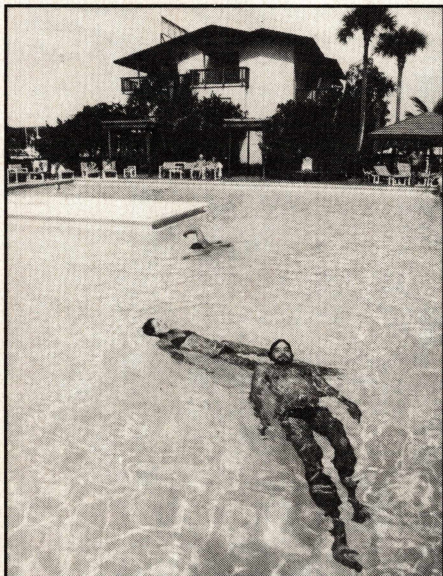
Doc

Joe

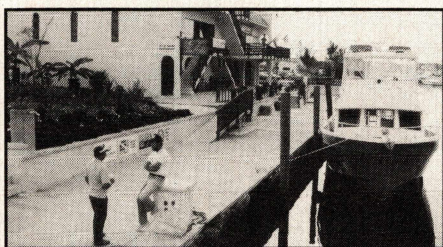
photos/Stephen Frink

and Doc Schweinler seemed to minimize any hassle. And, since they consistently showed me superior dive sites, I became a repeat customer.

Still, their first big dive boat was a welcome addition. Formerly a fishing party boat operating in Northern Florida, the 65 foot *Captain Crunch* was introduced into Florida Keys diver service because it was built low to the water, facilitating diver entry. It was exceptionally stable even in rough sea conditions. There is a major



Above: The pool at the Port Largo Resort. Below: Ocean Divers' marina and retail facility offers exceptional convenience.



distinction in U.S. Coast Guard regulations between a vessel licensed to carry six passengers and one certified to carry 48 passengers as is the *Captain Crunch*. In many respects the larger boats are more expensive to operate, but Joe and Doc feel that since the larger boats are most often not filled to capacity there is more space per diver than with the smaller boats. This, combined with the multiple deck levels for sunbathing or gearing up and the increased stability, made the larger vessel considerably more comfortable. The larger boat also opened the business for traveling groups of divers who wish to be on the same boat, and scuba training groups from South Florida and the northern states who prefer the warm, clear waters of the Florida Keys for their open water checkouts.

Other major improvements came gradually. A second retail store was opened

(Continued on Page 118)

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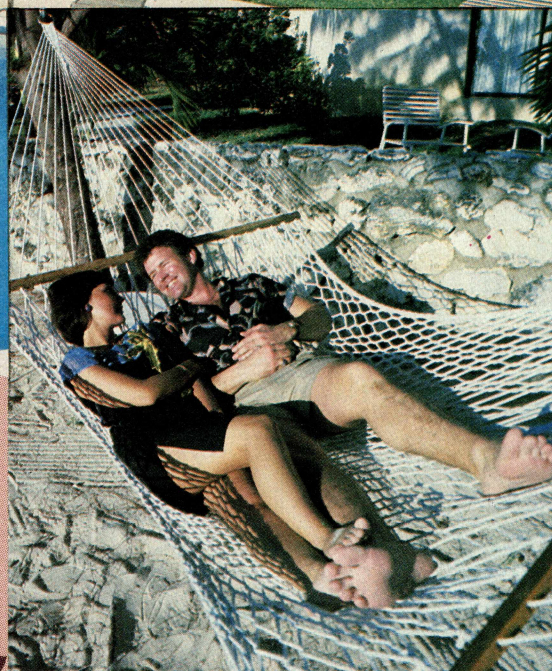
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Photos/Stephen Frank



photos/ Barbara Currie

Top: London House condos overlook the pool. The resort offers full service and a relaxed atmosphere.

Cayman's LONDON HOUSE

A Scuba Vacation With The Condo Touch

BY BARBARA CURRIE



photo/ Geri Murphy

Bob Soto's has six dive boats and guarantees your diving.

A luxury, multi-million dollar condominium on one of the finest beaches in the Caribbean is luring scuba clientele with one of the dive industry's most exciting low-season vacation packages.

Bob Soto's Diving Ltd. and London House condominiums have combined first class service with first class accommodations to offer divers a vacation plan to live like a millionaire, dive like a king and pay like a pauper, on Grand Cayman.

Through December 15, divers can experience the luxury, convenience and privacy of a condominium on Grand Cayman's famous Seven Mile Beach, while enjoying the dive services they would expect to find only at a full service resort or dive lodge.

The setting for this exclusive vacation is London House, a modern, 20 unit complex whose layout,

design and decor make it one of the island's most attractive offerings. Five miles north of the capital of George Town, London House offers guests a panorama of almost the entire sweep of the island's west coast beach. This is one of the quietest areas of Seven Mile Beach, one where guests may find themselves completely alone at times.

Each one bedroom or two bedroom condominium unit is decorated in fresh, airy tropical style and fully furnished, including complete electrical kitchens. All units are air-conditioned but because of their design, which catches the cooling tradewinds from the southeast, many guests find ceiling fans will suffice.

This tropical home away from home also provides maid service by a staff of Caymanians who are more than courteous—they're actually among the friendliest resort personnel you will ever meet. This warm, relaxed atmosphere is a constant concern of resident Manager Miriam Bodden, who insists that her guests request her assistance for anything which they feel will make their stay more enjoyable.

All units overlook the fresh water pool and shuffleboard court. Adjacent to the pool and patio area is a large barbecue available at all times for guest use. Entertaining "at home" is one of the most attractive features of the condo lifestyle, and London House offers the perfect sunset setting for informal gatherings.

Laundry services are available on the premises—another convenience of island apartment living.

The only service London House doesn't offer is transportation to and from town or other locations on Grand Cayman. For that reason, guests usually choose to rent a car for at least part of their stay for sightseeing and shopping and those times they decide to dine out.

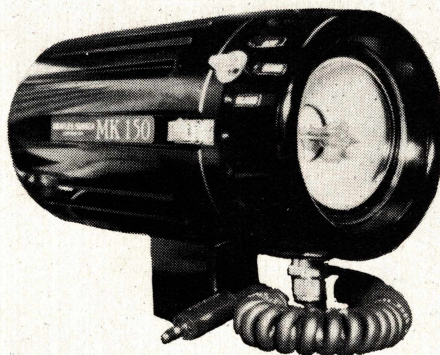
The accommodation and dive packages offered by Bob Soto's Diving Ltd. and London House are attractive for a couple but an even bigger bargain for a dive group of two couples or four friends traveling together. London House's two bedroom units are spacious enough to allow each couple's privacy.

The three packages include:

Eight days/seven nights/six days of diving: Two bedroom apartment (four people); government tax and gratuities; airport transfers; wine, cheese and food starter pack; six two tank morning dives, one night dive; and a complimentary Bob Soto's T-shirt. For four people in a two bedroom unit the cost is \$499 per person; two people in a one bedroom unit, \$669 per person.

Six days/five nights/four days of diving: All the basic features mentioned above, except four two tank morning dives and one night dive. For a two bedroom apartment (four people) the cost is \$359 per person; one bedroom apartment (two people) \$479 per person.

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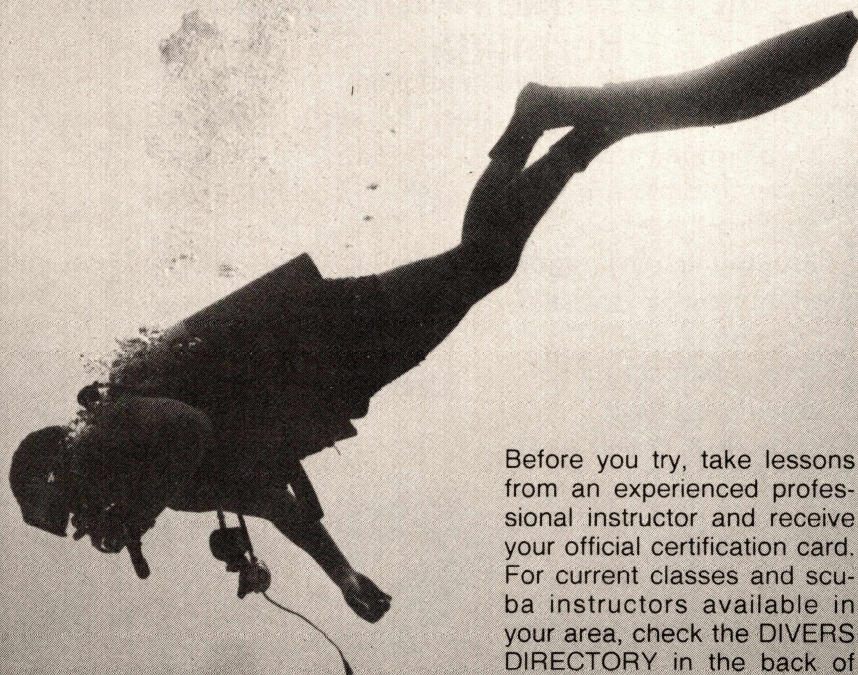
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WANT TO SCUBA?



Before you try, take lessons from an experienced professional instructor and receive your official certification card. For current classes and scuba instructors available in your area, check the **DIVERS DIRECTORY** in the back of this magazine.

skindiver
magazine

LONDON HOUSE

Four days/three nights/two days of diving: All of the same basic features except two two tank morning dives and one afternoon one tank dive. For a two bedroom apartment (four people), the cost is \$219 per person; one bedroom apartment (two people), \$289 per person.

And, divers are guaranteed by Bob Soto's Diving Ltd. that they will not miss a single day's diving. This is a claim backed by fact: Bob Soto's Diving Ltd. will celebrate its 1,000 day of consecutive diving this summer. Soto's fleet of six custom built dive boats and well trained staff of 24 work hard to make this operation run smoothly enough to accommodate a volume of visitors without any delays or cancellations.

And, while staying in luxury beachfront condominiums, guests will receive royal



photo/Barbara Currie

treatment: beachfront pickups at London House by your dive boat, weather permitting, and transportation to departure points otherwise.

London House is just minutes from some of the west coast's most popular drop-off sites, including Trinity Caves, Sentinel Rock and Orange Canyon, and also is a short trip to Cayman's famous North Wall.

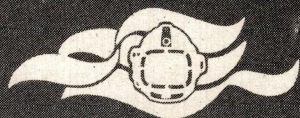
Divers will discover another convenience of condominium living is the availability of rinse facilities right outside their door, and plenty of space to store gear inside between dives.

Once you experience this kind of island living, it may spoil you for future dive adventures elsewhere. >>>



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Bermuda's Bounty

A Fabulous Treasure Trove Of Wreck Diving Experiences

BY GERI MURPHY



An estimated 350 shipwrecks lie under the waters around Bermuda. Most are shallow, easily accessible, and eight dive boats make regularly scheduled trips to them.

PHOTOGRAPHY BY
THE LATE LAURENCE GOULD

Dive travel has evolved to the point where each island destination is identified with a particular underwater specialty. For the Caymans it is giant sponges and sheer drop-offs. The Bahamas are known for their great numbers of groupers and conch. Bonaire is a supermarket for macro critters and eels. And, for Bermuda, it is shipwrecks.

Bermuda is virtually an underwater city of shipwrecks. There are more wrecks per mile in this area than any other place on earth. An estimated 350 ships have been recorded as wrecked

or sunk in the waters around this singular, low lying island.

While other areas of the world may be described as shipwreck graveyards, none is more accessible than those of Bermuda. These sunken vessels are close to the island and Bermuda is a marvelous vacation paradise. A visitor can spend the day exploring a sunken freighter and be dining on beef Wellington the very same evening. Bermuda is blessed with some of the finest hotels and restaurants to be found on any island in the world.

Accessibility to the wrecks and convenient diving are the secrets of Bermuda's success. There are five different dive operators on Bermuda, with a total of eight dive boats making regularly scheduled trips to both the coral reefs and the wrecks. Most of Bermuda's popular diving sites are only a 10-30 minute ride by boat. A couple can even be dived from the shore, but I would not recommend it. The range and speed of a dive boat allows far greater access to multiple wreck dives in a single day. It is not uncommon for a boat to visit two or three wrecks on the same trip, as some of the wrecks are only a few hundred yards apart.

Another great attraction of the Bermuda wrecks is the variety. These marvelous sunken ships represent an underwater museum which documents over 400 years of maritime history. The most recent are steel hulks which sank during WW I and WW II. There are Civil War blockade runners, sailing ships from the 1700s and even the remnants of early explorers and treasure galleons from the 1600s. A visitor can swim through four centuries of history in less than a week.

How did all these shipwrecks pile up in one concentrated area? It is simply a matter of deadly geography. Bermuda is a small, low lying island in the mid-Atlantic, surrounded by hundreds of miles of open ocean. It sits right smack in the center of the traditional shipping routes between the Old World (Europe) and the New World (U.S. and Latin America). Thousands of ships pass this little island every year. Bermuda is much like a traffic light at a busy intersection.

Spreading out from Bermuda, much like a giant fishnet, is a submerged coral barrier reef which comes within inches of the surface. The reef cannot be seen by approaching ships because it lies well offshore and is often unexpected. Many ships have collided with this reef before, or at the very same moment, they sighted the island.

Bermuda's outer reef is like a giant shipwreck factory which has worked ceaselessly for more than 450 years. Night and day it lies in wait, snaring any vessel which comes within its grasp. Aided by winter storms, fog and faulty navigation, this treacherous ring of coral has trapped many unsuspecting ships.

Yet, one man's tragedy may be another's treasure. The fatal geography of Bermuda has resulted in a mind-boggling collection of diveable wrecks. This treasure trove of history has been further preserved and protected by the wisdom of the Bermuda government. Salvage of these wrecks is, for the most part, prohibited or strictly controlled by law.

Bermuda's barrier reef completely encircles the island and wrecks can be found along the entire perimeter. There is virtually a ring of wrecks surrounding this island, allowing diving trips to all four

points of the compass. Regardless of wind direction or sea swells, there is always at least one or two sides of the island that are diveable.

NORTH

The *Caraquet* is a steamer which sank in 1923 while carrying a cargo of general goods. The vessel is marked by three boilers and an anchor lying in 20 to 40 feet of water.

The *Madiana* is a British passenger Steamer which sank in 1903. It lies in 20-40 feet of water and is inhabited by great numbers of reef fish.

The *Taunton* is a British Royal Mail steamer which sank in 1914. Her bow section and engine are still visible and covered with corals. She lies in 10-25 feet of water.

The *Aristo* is a Norwegian freighter which sank in 1937. The ship is still fairly well intact and lies in 55 feet.

The *Cristobal Colon* is a Spanish luxury liner which sank in 1936. She is one of the largest and most beautiful wrecks in

BERMUDA TRAVEL TIPS

Dive Season	April through November
Wetsuits	Shorty suit in summer, full 1/2 suit at beginning and end of season
Dress	Casual attire / daytime, jacket / dinner, sweaters for cool evenings
Local Travel	No car rentals / 20 mile speed limit visitors use taxi or rent mopeds
Currency	One Bermuda dollar equals one United States dollar
Passport	U.S. passport or birth certificate required
Air Service	American Airlines, Delta Airlines, Eastern Airlines, Pan Am

Bermuda and is ideally suited for underwater photography.

EAST

The *Avenger* is an English brig which sank in 1894. She lies in 20-30 feet of water and still has a number of deadeyes from the sail rigging still in place.

The *Colonel W. Ball* is an American motor yacht which sank in 1943. She also lies in fairly shallow to medium depths.

SOUTH

The *Rita Zovetta* is an Italian ore carrier which sank in 1924. The vessel lies in 20 to 70 feet of water and the stern is still fairly intact.

The *Kate* is an English steamer which sank in 1878. She is marked by a distinctive propeller and a large anchor lying in 25-45 feet.

The *Pollockshields* is an English steamer which sank in 1915 while carrying supplies and ammunition for WW I. She lies in 10 to 30 feet of water and brass shell casings are still visible.

The *Minnie Bresslauer* is a 300 foot English steamer which sank in 1873. Her cargo consisted of dried fruit, cork and lead ingots. She lies in 25-75 feet of water and is marked by a copper boiler, propeller and rudder assembly.

The *Marie Celeste* is an American Civil War sidewheeler which sank in 1864. She lies in 50-60 feet of water. The framework of her two paddlewheels is still visible.

WEST

The *Constellation* is a four masted, 180 foot schooner which sank in 1943. She was carrying a general cargo of cement bags, shoes and medical supplies. Divers often find glass ampules of World War II medical drugs, glassware, crucifixes and cosmetic bottles on this fascinating wreck.

The *Montana* is an American Civil War paddlewheeler which lies in 20-30 feet of water. The paddlewheel framework is fairly intact and lies on its side.

The *L'Herminie* is a 60 gun French frigate which sank in 1838. Her remains lie in 20-30 feet of water with 25 giant cannons still visible.

The *North Carolina* is an English barque which sank in 1880. Much of this sailing vessel remains intact.

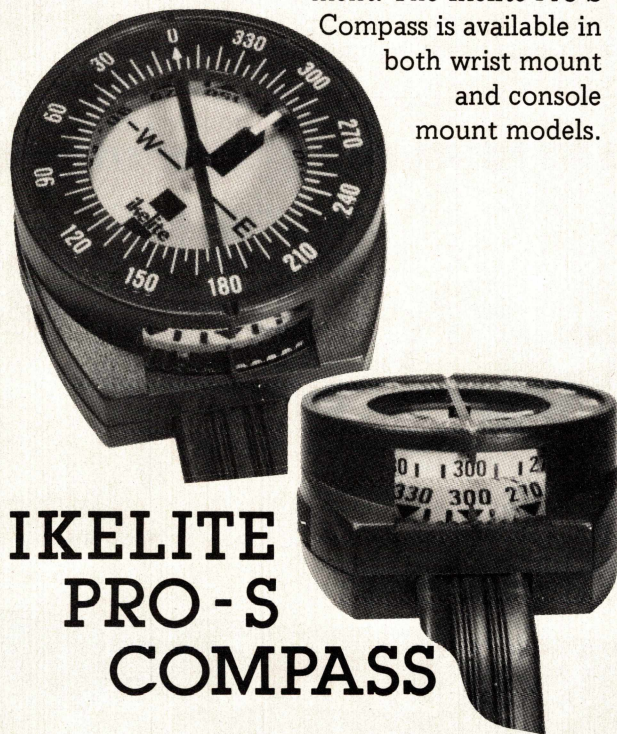
This list could go on for pages and the
(Continued on Page 137)

BERMUDA DIVE OPERATORS

Dive Operator	Location	Owner/Mgr.	Phone	Dive Boats	Departures	Hotel Packages	Mailing Address
Blue Water Divers	White Heron Inn, Heron Bay	John Buckley Michael Burke	(809) 294-1034 (809) 298-2799	42/24 Divers	9:00 am 1:00 pm	White Heron Inn	Blue Water Divers P.O. Box 165 Southampton, Bermuda
Dave McLeod Skin Diving Adventures Ltd.	Robinson's Marina Somerset Bridge	Dave McLeod John Menzies Stephenson	(809) 294-1034 (809) 298-2799	38/20 Divers 30/10 Divers	9:30 am 1:30 pm	Pompano Beach Somerset Bridge Apts.	Dave McLeod P.O. Box 165 Southampton, Bermuda
Nautilus Diving Ltd.	Southampton Princess Hotel, Whaler Inn Beach	Ross and Katherine Menzies	(809) 298-2332 (809) 298-8000 Extension 6073	42/22 Divers 36/18 Divers	9:30 am 11:00 am 2:00 pm	Southampton Princess	Nautilus Diving P.O. Box 310 Hamilton, Bermuda
South Side Scuba Ltd.	Sonesta Beach Hotel	Bobby Lines Ronnie Boys	(809) 298-8122 Extension 3182 (800) 343-7170	36/18 Divers 26/10 Divers	10:00 am 2:00 pm	Sonesta Beach Hotel	South Side Scuba Sonesta Beach Hotel Hamilton, Bermuda
Underwater Explorers Ltd.	Grotto Bay Hotel	Steve Gordon	(809) 293-8333 (809) 293-2640 (809) 982-4770	24/8 Divers	10:00 am 2:00 pm	Grotto Bay Hotel	Underwater Explorers P.O. Box 298 Flatts, Bermuda

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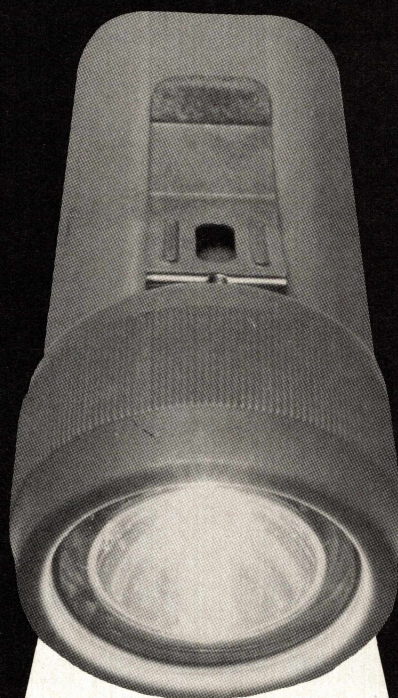

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OCEAN DIVERS

(Continued from Page 109)

near the center of Key Largo on U.S. 1 adjacent to the entrance to Pennekamp Park. Also, a waterfront dive shop was developed to facilitate the transfer of tanks and dive gear to the boats. A second large dive boat, the 50 foot *Ocean Diver*, was placed in operation, offering many of the same advantages as the *Captain Crunch* but faster and equipped with bunks and galley for live-aboard charters to the Keys and Bahamas.

In late 1977 Stephen Frink rented a portion of the new highway facility to open a business catering exclusively to the underwater photo enthusiast. This collaboration permitted the establishment of the Upper Keys' only E-6 slide processing and slide duplicating service, as well as the Florida Keys' most extensive selection of underwater photo equipment rentals and sales. A frequently published photo journalist specializing in the underwater world, Stephen Frink also conducts several photo courses each year from this Key Largo base.

Until the late 1970s most diving services in the Florida Keys were sold *a la carte*. In other words, the traveling diver

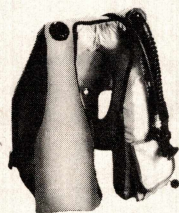
would journey to the Keys, check into a hotel and then seek out a dive shop to provide the necessary gear and boat transportation to the beautiful fringing reefs six miles offshore. Ocean Divers was one of the first to realize the advantage of preparing a package vacation where a single phone call or mail inquiry could book both diving and lodging. The Holiday Inn dive/lodging package was successful from the outset and is still in effect today. In addition, recognizing that not every diver seeks the same type of accommodations, Ocean Divers has also established packages with both Port Largo Villas and Port Largo Resort. These are luxurious one and two bedroom, two bath units available for daily and weekly rentals. Among the special amenities offered are a full kitchen, air conditioning, swimming pool, linens, boat dockages, pool-side lounge with live entertainment and spa. For groups of three or more divers, and especially families, these units are an exceptionally comfortable and cost effective alternative.

The final step consolidating the total dive resort concept occurred recently with the construction of a magnificent 3,500 square foot dive facility adjacent to the Port Largo Villas and Resort and on the same canal as the Holiday Inn. The new Ocean Divers marina and retail facility offers exceptional convenience for the

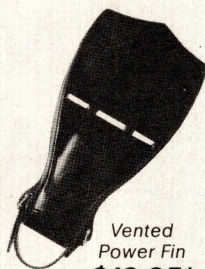
diver: Tanks and rental gear are just steps from the boat loading ramps. In addition, a wide variety of lodging, shopping and fine dining is available nearby. The canal fronting the property is one of the deepest and widest in Key Largo and provides quick access to the famous dives sites, such as Molasses and French Reefs, at the southern end of Pennekamp Park. The new store is in addition to the existing highway location which still incorporates the underwater photographic service and offers significantly increased retail space as well as a restaurant, fuel docks, ice, boat launch ramp, film, nautical jewelry and T-shirts. Both pool and open water dive instruction is available from resort course through divemaster if desired. Specialty courses such as underwater photography, wreck diving, etc. are also offered in conjunction with Ocean Divers' PADI Five Star Training Facility status.

In the past nine years it has been gratifying to see Ocean Divers expand and succeed. They have aggressively entered the era of modern dive resort operation, yet maintained the personal touch that keeps customers returning. For further information or reservations, call Ocean Divers at (800) 451-1113 or within Florida at (305) 451-1113. Mail inquiries should be directed to P.O. Box 1113, Key Largo, Florida 33037.

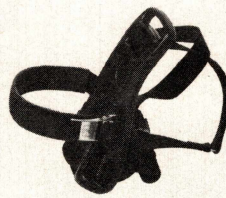
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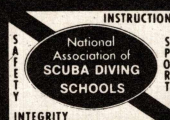


PHOTO CONTEST TIPS

(Continued from Page 46)

✓ Be mechanically correct. We've seen picture after picture—especially close-ups—lose because of poor focus, inadequate depth of field or improper exposure. Perhaps the entrants were concentrating on composition and hoped the judges wouldn't notice the mechanical defects. Examine slides for sharpness with a high-quality loupe. Don't depend on your unaided eye, a cheap loupe or projection with cheap lenses.

Don't enter damaged prints. While we've seen judges ignore minor damages that probably occurred while prints were in transit, we doubt that they would ignore stains and damages that obviously occurred before the prints were mailed. The bottom line might be whether or not the picture could be reproduced if it was a winner.

✓ Grab their emotions. Except in the smaller contests, static, documentary portraits of divers or fish will probably be eliminated in favor of photos that show action or evoke a strong mood. What is the subject doing? How does the picture make me feel? These are the questions in the judge's mind. Today's judges are no longer impressed by the mere fact that you took the picture underwater. Make them laugh, cry or stare in awe and you're heading for the winner's circle.

✓ Go for the eyes. Given two equally good portraits of invertebrates, the one with the eyes will win. Hermit crab and octopus portraits, where the eyes are prominent, will usually win over corals or sponges (assuming the photo techniques are the same). The viewer looks for the subject's eyes because they lead to the direct or implied action in the picture. In the PADI contest, six of the divers had eye contact with marine creatures, two had eye contact with the viewer and two had implied eye contact with their surroundings.

✓ Dare to be different. Some judges consciously or unconsciously compare entries to other photos of that subject that they have seen before. We saw a perfect print of two French angels lose, even though we thought it was superior to the other entries. Why did it lose? Because the judge had seen so many French angel photos in the past he was "bored" with them! Judges who are experienced U/W photographers may vote for a photograph—regardless of technical quality or composition—just because it shows a subject, technique, action or view they may have never seen before. To please them, strive for something different.

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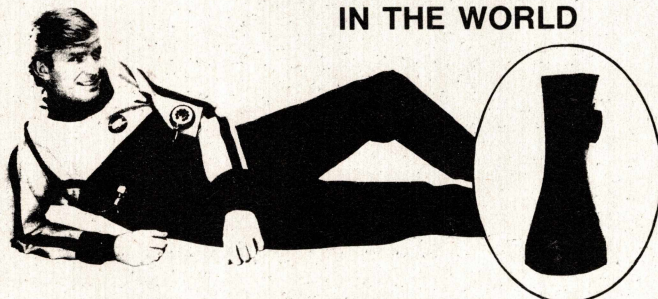
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PHOTO CONTEST TIPS

✓ **The same can be safe.** If the judges are new to U/W photography and aren't familiar with previous winners, the same kind of pictures that won before may win again. Therefore, it never hurts to include entries that are similar to previous year's winners. On the West Coast, for example, close-up portraits of patterns of kelp bulbs have won or placed in contests for years. While veteran photographers refer to these kinds of pictures as "everybody's kelp shot," they win again and again. Likewise the colorful, oval patterns of sea anemones are often the favorites of new judges.

✓ **Cash in with trends.** Whales are an "in thing" now. Because they are endangered and get good press, good U/W pictures of these graceful giants are likely to be winners. And, if the whale is shown with a baby, the emotional pull is even greater and chances of winning increase. While you may not be able to put a whale in front of your lens, be aware of U/W subjects that are or may be receiving public attention. Also, look for trends in techniques. For awhile, anything that was backlit was getting attention. At this writing, subtle lighting is in.

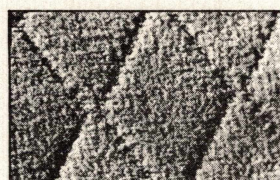
✓ **Win with composition.** Photos of simple subjects, with a single main point of interest, are often pretty, but not always winners. Photos with two subjects, relating to each other, showing action, behavior or depth, are usually more interesting. Ben Epstein's winning pictures in the PADI and USA contests had three subjects—near fish, the shape of a cave opening and a distant diver framed by the cave—and the contrast between the near fish and distant diver gave a feeling of depth. The judge's eye could start with any part of the scene and move onto another. The point is that pictures with multiple points of interest often hold the judge's attention longer and thus end up as winners.

✓ **Title creatively.** Sometimes the title can give a picture the extra little push it needs to win. For example, in the PADI contest, Sally Adolph's natural light photograph presented a view of a distant diver through a porthole. Her creative title, Through the Looking Glass, adds a mood to her photo that titles such as Diver and Porthole would miss completely. Likewise, Sally's title, Ghostly Chamber, for her natural light slide of the engine room of a sunken ship, may have helped when she won first place for wreck slides in the USA contest.

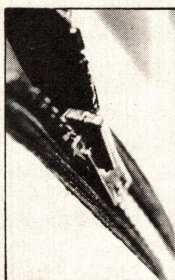
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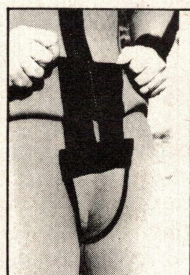
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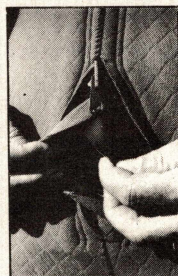
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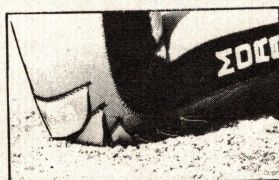
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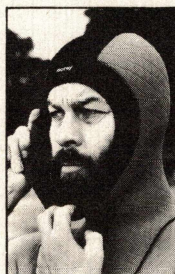
Triple velcro fastener



Double sealed fly zip optional extra



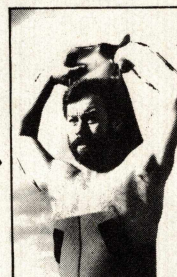
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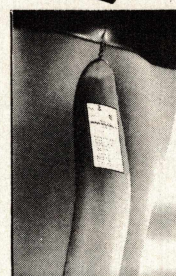
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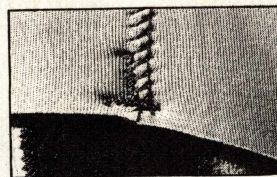
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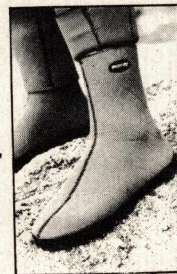
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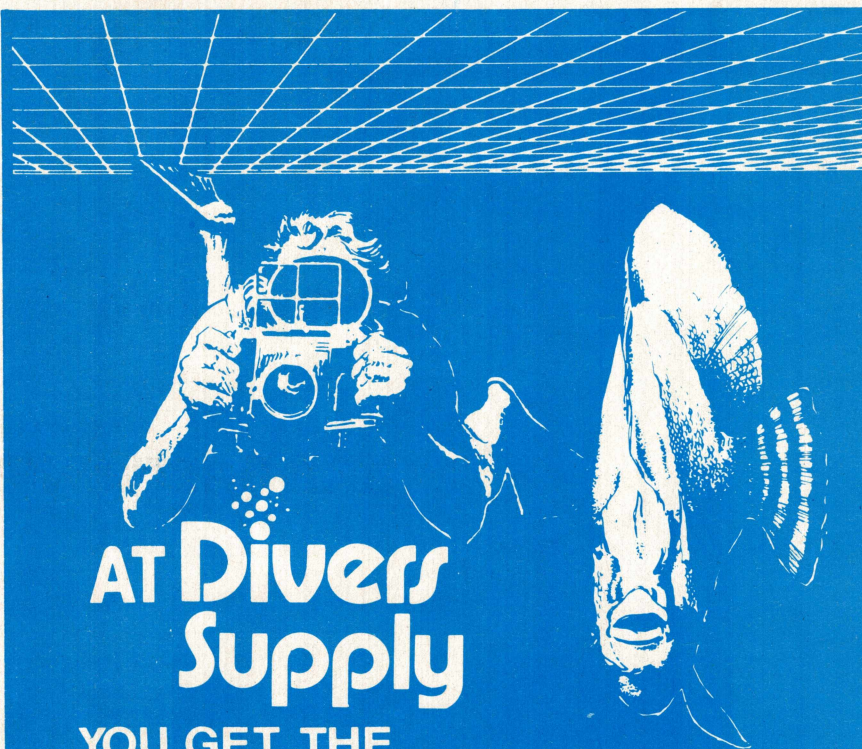


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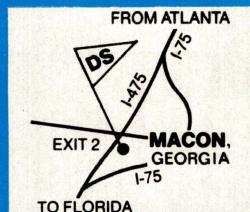


PHOTO CONTEST TIPS

✓ **Reverse your viewpoint.** Here is a simple trick for selecting those close-up slides that attract and hold the viewer's eye. After eliminating all slides that have poor focus, exposure or composition, place the surviving slides on a flat light box (with 5,500 K lamps). Walk around to the opposite side of the table and glance at the slides. Because they are upside down, you don't try to see the picture. Rather, your eye will be drawn to the slides with the most color and contrast and distinctive forms and shapes. The slides that attract your eye will often be among your best contest entries.

✓ **Have a precontest.** If you can arrange to show your slides before a group, arrange a precontest judging to help you select your final entries. The basic procedure is to carefully, but concisely, explain the categories and other judging criteria to your audience and then have them judge your slides. You must be neutral in your presentation! If, by your body language or tone of voice you show your personal preferences, different members may vote for or against a particular picture for that reason. If you can show to more than one group—one divers, the other non-divers—you can get a feeling for what impressed each the most. The point is that you often can't judge your own work objectively. Jim once threw a slide into a trash can because the lighting didn't turn out the way he had expected. Another photographer retrieved the slide and talked Jim into keeping it. Later, that same slide won a silver medal. Thus, if you want to be a winner, your goal must be to please others—not just yourself.

✓ **Multiple entries are OK.** Some contest rules may disqualify pictures that have been published or have been winners in other contests, but we've never seen rules that excluded a basic setup or subject matter. If you took several pictures of the same subject and have two or three excellent shots that are similar, enter each of these in different contests. As long as the pictures were taken at a different time, on a different frame of film, they are different pictures. Ben Epstein, for example, took first place in both the PADI and USA contests with a multiple entry. His two pictures (the fish, cave and diver previously described), titled Cave of Jewels for PADI and Cave of Gold for the USA contest, were probably taken only minutes apart with the same subjects and location.

✓ **Make the rules work for you.** If the stipulated size for prints is no larger than 8 x 10 inches, for example, send an 8 x 10 inch print rather than 5 x 7. The larger the pic-

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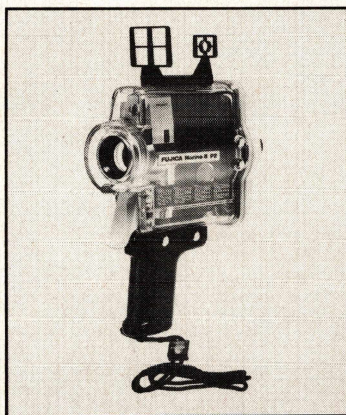
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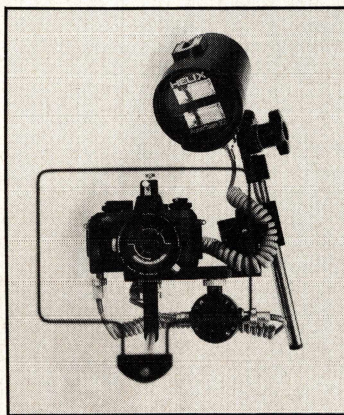
Catch all of the action with an underwater movie/photography kit. The Fujica P2 movie kit captures all of those live-action moments you'll want to remember. And for those special still life's, the Helix Underwater Photography Kit, complete with attachable Helix Aquaflash 22.



Left: Fujica P2 Underwater Movie Kit

The Fujica P2 Movie Kit features the Fujica P2 Single-8 movie camera, a removable underwater housing that protects to 120', a sportsfinder and a pistol grip. In addition, a cartridge of Fujichrome R25 film, plus processing.

Fujica P2 Underwater Movie Kit	\$ 99.00
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Right: Helix Underwater Photography Kit

The Helix Underwater Photography Kit features the popular Nikonos IV-A 35mm camera with f2.5 lens. Plus the attachable Helix Aquaflash 22 electronic flash unit and a Nikonos close-up outfit make this Helix package complete.

Helix Underwater Photography Kit	\$ 695.00
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PHOTO CONTEST TIPS

ture, the greater the eye appeal. Likewise, if you can enter up to three slides, enter three. The greater your number of entries, the greater your chance of winning. When we've been judges, we and the others we've judged with have never been biased against photographers who entered the maximum number of pictures allowed by the rules. Follow all rules to the letter! In large contests, where they may wish to reduce the number of pictures the judges must labor over, even the slightest deviation from the rules may automatically disqualify an entry.

✓ **Neatness can count.** Imagine you are a contest judge who has been looking at U/W pictures all day. You're tired, your eyes ache, but you must make one last decision: Of two pictures, which is first place, and which is second. You've been putting this decision off because both pictures are excellent, you couldn't make up your mind, and you could justify your decision for either. Then you notice something different! The required information (for this example) concerning subject, location and aperture on the back of one print is neatly typed on a label. And, on the other, it is a barely legible scrawl. OK, you're the judge, what's your decision? When you were teetering on the fence, neatness won—didn't it?

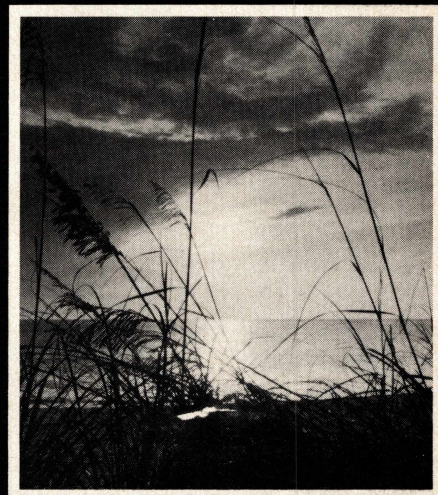
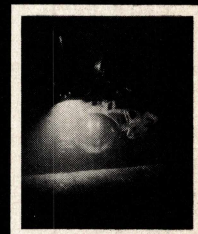
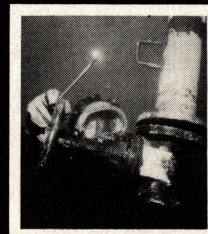
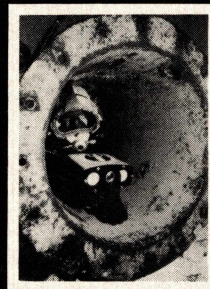
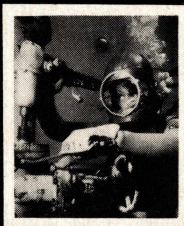
✓ **Develop a winning strategy.** After learning as much as you can about the purposes of the contest and the judging, sort your potential entries into the categories specified by the rules. Include a varied selection of pictures within each category. In other words, have something for each judge. While having one judge on your side doesn't guarantee winning, judges sometimes "horse trade" and compromise to break deadlocks. Realize you are emotionally involved with your pictures, and you probably need unbiased help in making your final selection.

✓ **Winners can lose.** A picture that loses in one contest might win in another. Perhaps your picture didn't fit the purpose of the contest or it may have lost by only a narrow margin. Also, different judges may see the picture differently. If you think you have a winner, don't be afraid to enter it again in another contest.



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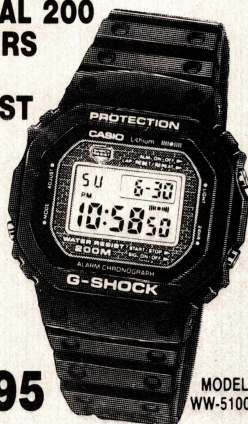
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ON THE RUN

Rx FOR DIVERS

(Continued from Page 29)

ing physician should be consulted if this occurs since prompt recompression chamber treatment often results in a return of inner ear function to normal.

Any diver who suffers inner ear injury while diving should have a complete ENT evaluation before returning to diving. The disappearance of vertigo may not indicate that the balance organ in the inner ear has returned to normal function. If such an evaluation reveals significant deafness or inner ear balance organ dysfunction, the diver should not return to diving: Such injuries increase the likelihood of future injuries. Damage to the opposite ear can cause total deafness.

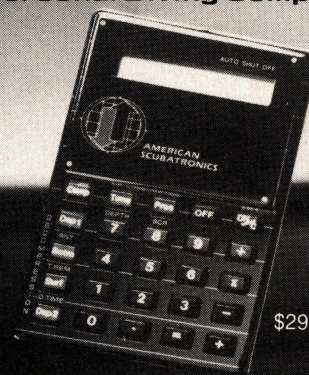
PREVENTION OF EAR SQUEEZE

There have been some devices designed for people with perforated ear drums who cannot get their ears wet when diving. I can recall diving with a friend who used them and always complained how difficult they were to use. These earmuff type devices were not intended to help equalize ear pressures and prevent ear squeeze. Rather, they are supposed to keep water out of the ears. To accomplish that it is necessary to maintain the pressure on the ear at ambient pressure. Hence, connection of the earmuffs to the second stage of the regulator or to a facemask is necessary. Although such devices work, the difficulty in using them and the risk of getting a severe ear infection if they leak, has limited their popularity.

No matter what you do to the outside of the ears, the problem with equalizing is from the inside of the ears and throat and there are no artificial tubes which can connect the mask or regulator with the middle ears where the equalization problem occurs. You should learn the various ways to clear your ears. If you still have trouble after using the correct method of clearing, have an ear, nose and throat exam by a doctor who knows something about diving medicine. Before seeking more medical advice, try the following: descend in the water head up (that is go down feet first), begin to clear your ears *on the surface*, before you begin your descent and clear continuously as you descend. Be careful not to bear down too hard or you will risk a round window rupture and more ear trouble.

Dizziness on ascent may result from altemobaric vertigo and comes from the ears not equalizing at the same time during ascent. The only way to keep the pressure off the ears when diving is to use the complicated one atmosphere diving suit. These are large and very expensive. Made of metal, they maintain a one atmosphere pressure within. They are only used by commercial companies and

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How deep you can dive
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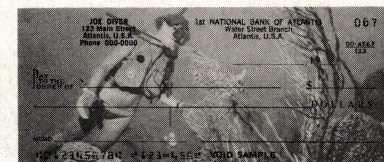
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would not be suitable for sport diving. Riding in a submarine or diving bell would also work.

When diving, all the tissues of the body are subject to the increased pressure and if just the ears are excluded from the ambient pressure, there would be an even greater likelihood of a squeeze. ❧

FRINK/RED SEA TOUR

This year's Stephen Frink photo-adventure tour will be aboard the 96 foot *Lady Jenny V*, cruising the Red Sea. In conjunction with La Mer Diving Seafaris, Frink will lead a group of photo enthusiasts to Egypt to visit the pyramids and Sphinx. From there it's on to Sharm-el-



photo/Stephen Frink

sheikh and the *Lady Jenny V* for ten days of diving and underwater photography along the famous Straits of Tiran as well as even more virgin dive sites in the heart of the Red Sea. This year's tour will be from November 3-19. ❧

MARTINI SCUBA

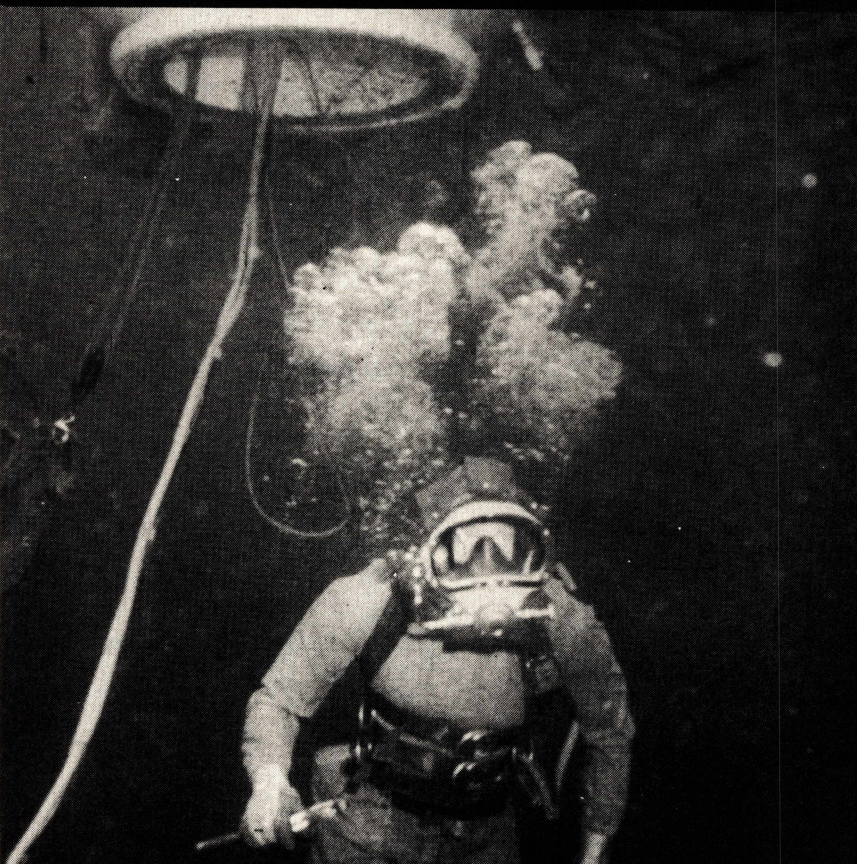
Martini Scuba, a PADI Training Facility in Yonkers, NY, has established a broad new program of diving instruction under training director Ernie Feleppa. The program includes certification courses in skin and scuba diving up to master scuba diver and assistant instructor. Open water and advanced courses are offered throughout the year with regularly scheduled courses in standard specialties including rescue, photography, night, deep, wreck and research diving plus equipment repair specialist. In addition, several distinctive specialties are available, such as diving biophysics and physiology, ecology and species identification and chamber orientation. ❧

U/W HOCKEY

The 1984 Underwater Hockey World Championships will be held May 1-4 at Chicago State University, Chicago, IL.

For more information contact Tom Miller, Director of Underwater Hockey Competition, Underwater Society of America, 1105 Helen St., Deer Park, TX 77536; (713) 476-4043. ❧

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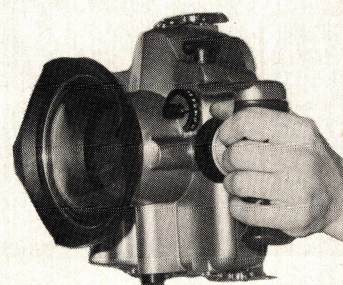
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___ Forearm

___ Elbow

___ Biceps

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1985 DEMA SHOW

Owing to a demand for more space the 1985 DEMA Trade Show will be held, in-house, at the Las Vegas Hilton. The Hilton is constructing a 72,000 square foot exhibit hall adjacent to its present facility. It is scheduled for September completion and will enable DEMA to accommodate the latest growth estimates.

The new show dates are January 31 through February 3, 1985. For further information, please contact Bob Gray at DEMA, P.O. Box 217, Tustin, CA 92681; (714) 730-0650.

PISCES BOOK COMPANY

Piscus Book Company, founded by writer/photographer Herb Taylor and his wife Cora Sibal Taylor, offers about a dozen new books for divers. These cover a wide variety of topics including: Hillary Hauser's *Book of Fishes*, Carl Roessler's book, *The Predators*, and an illustrated, full color travel guide series for snorkelers and divers. Books for the Florida Keys, Virgin Islands, Hawaiian Islands, Cozumel, Grand Cayman, Bonaire, Curacao and Aruba are offered, with more planned for the future. Each book covers specific dive sites and shows what divers can expect to see. Other books include a revised edition of a book on the life cycle of lobsters and a workbook designed to help divers master the use of the no decompression tables.

SEA QUEST II

Scuba Lake Michigan Charters has a new dive boat. *Sea Quest II* is a 32 foot Hatteras Flybridge especially set up for diving comfort and safety. It is equipped with twin 350 hp engines capable of speeds of nearly 40 mph and has a fuel capacity of 265 gallons. It has a range of over 225 miles.

Electronics aboard include Loran-C, VHF ship-to-shore radio, hailer, emergency position indicator radio beacon, radio direction finder, graph recorder, flasher and an underwater speaker/recall system. For diver comfort, the 121 square foot cockpit allows ample room for gearing up and moving about, while the full beam swim platform with three step in-water dive ladder provides easy diver return. Cockpit lighting and an underwater diver-return strobe light complete the night diving amenities. Oxygen is carried for diver safety.

Sea Quest II is berthed in Michigan City, IN with dive trips conducted from Thursday through Sunday of each week including regularly scheduled night dives on Fridays and Saturdays. For additional information, dive schedule with rates and a colorful brochure describing most of the 20 different wreck sites visited, contact: Scuba Lake Michigan Charters, c/o Capt. Ernie Piotrowski, 234 N. Albert St., South Bend, IN 46619.

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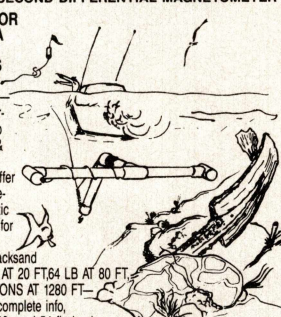
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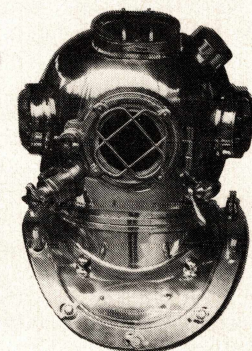
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HANS HASS APPEAL

Professor Hans Hass, a pioneer in sport diving and underwater research, made the following appeal to sport divers on his 65th birthday:

"I urge sport divers all over the world to combine their forces to support actively existing societies for the protection of the oceans in order to prevent further pollution and harmful exploitation of our seas. If everyone were to employ his or her knowledge and connections for this course, the work of these organizations could be furthered effectively. We have become a powerful army and by uniting our strength, the wonders and treasures of the seas and oceans can be preserved for future generations. The ocean-being, the only ecosphere on the planet earth which is not yet dominated by mankind, is in great danger! Scuba diving is a pleasurable pastime but should also serve a purpose."

WEBFOOTED WARRIORS

The Webfooted Warriors Association, a fraternal civilian association of present and former U.S. Navy Underwater Demolition Team and SEAL team members, has appointed Larry "Joe" Roberts as secretary. Roberts, a veteran of both the Navy and government service, was a member of UDT during the Korean War era. He is currently an executive officer with a Hollywood motion picture studio cameramen's guild.

NIAGARA RIVER RACE

Every year since 1974 the Fort Erie Underwater Recovery Unit has organized a race down the Great Niagara River. This year it is co-sponsored by the Underwater Recovery Unit and the Buffalo Aqua Club. It will be held on Saturday, May 12.

Trophy plaques will be awarded the first three finishers along with a plaque for the most original craft. Other prizes will be awarded at the buffet dinner after the river race.

Teams of five or more are invited to compete. For more information contact: Chip Cambell, Buffalo Aqua Club, 72 Pearl St., Blasdell, NY 14219, (716) 822-5881; or Terry Moffatt, Fort Erie Underwater Recovery Unit, 348 Dufferin St., Fort Erie, Ontario L2A 2T9, (416) 871-0866.

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★ New Store:

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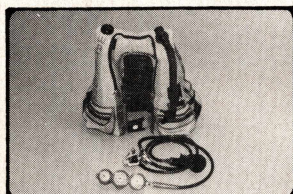


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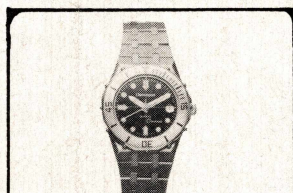
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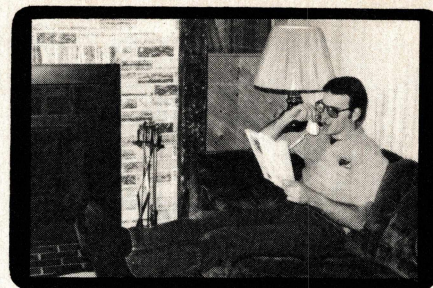
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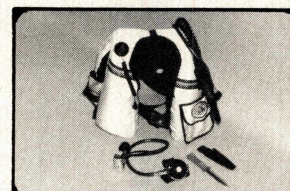
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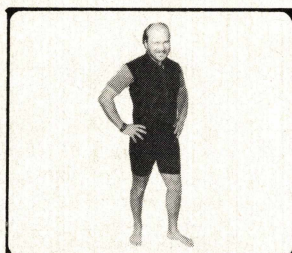


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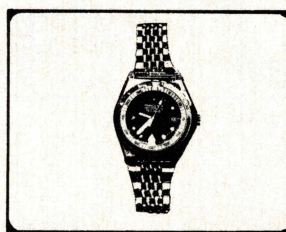
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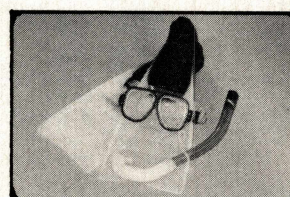
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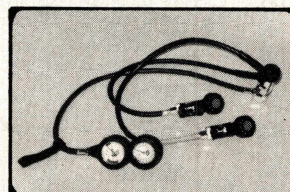
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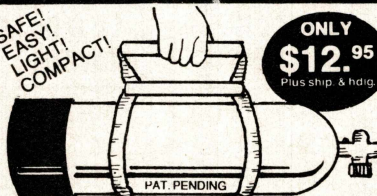
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MONTEREY MECCA

BY DARREN R. DOUGLASS

When one thinks of the Monterey Peninsula one might think of California's nautical past; of fishing and whaling ports, canneries and packing plants, of noisy saloons and houses of ill repute. With all of its color and nostalgia, it is easy to understand why John Steinbeck set much of his literary work in the Monterey area.

Although a beautifully picturesque setting for travelers and tourists, Monterey also offers the underwater explorer special sights and adventure. It is a mecca for skin and scuba divers from Central and Northern California. During the week Monterey is an easy paced and quiet seaside town. Motels and restaurants are uncrowded, almost vacant. One can stroll along Cannery Row and visit specialty and antique shops, or walk on the uncrowded beaches, observing sea otters and tide pool life. The diving areas are unpopulated.

But on Friday afternoon, a strange lemming-like migration begins. They come from Marin County, Santa Cruz, Sacramento and San Luis Obispo. Early Saturday morning the motels, campsites and parking lots are full. Lines form outside the local dive shops and the coastline creeps with divers.

But why Monterey?

All one needs to do is take a drive along Ocean View Boulevard and examine the various rock and reef formations off the beach, note the calm, protected coves and bays, grab a tankful of air and get wet. The whole area is fantastically suited for beach diving.

When diving conditions are good (and they usually are, provided fierce Pacific storms are not lashing the coast) the visibility ranges from 15 to 30 feet, sometimes more when an upwelling occurs. The rocky coves and bluffs keep diving areas protected and calm. Even when Monterey Bay is whitecapped, the beach areas can be placid.

Marine life in the Monterey waters is incredible. Lingcod grow unusually large. Rockfish and red abalone abound (abs may only be taken free diving). Invertebrate life is colorful and diverse.

The diving areas themselves are just as diverse as the marine life. The following are just a few of the examples of Monterey's many exciting sites.

The Coast Guard Breakwater is just south of Fisherman's Wharf and at the northern end of Cannery Row. It is a very calm diving area easily accessible from the beach. The breakwater is a pile of rocks cut in varying sizes and dimensions that wrap around the front of the marina. The rocks create many cracks and crevices that house lingcod, bass and rockfish. Some of the crevices are even large

enough for a diver to swim into. Living on the rocks are many brilliantly colored starfish and anemones. There are sheets of rock completely covered with dazzling *Corynactis*. Patches of giant kelp run up and down the breakwater.

Toward the end of the rocks lives a colony of sea lions. These curious mammals will always come to examine the divers who visit their niche on the breakwater. They are harmless, but will come exceptionally close. The abundance of marine life in this area makes it good for spearfishing and photography. Because there is a layer of silt on the rocks, proper buoyancy control and minimum fin movement is a must to maintain visibility.

McAbees Beach is in the heart of Cannery Row. This area is often used for class checkout dives, but it offers much for the spearfisherman or photographer as well. A reef system begins directly in front of the Outrigger restaurant and slopes gently into 20-30 feet of water. There are many pieces of Monterey's past in this area. Pilings from old cannery piers lie broken and twisted with many colorful life forms growing on them. Sea otters search for food here. These furry little creatures can easily be seen from the shore, lying on their backs and feasting on shellfish all day long. The otter must eat a tremendous amount of food each day to maintain its metabolic rate. Despite their epicurean efforts, some red abalone can be found underneath the rocks that cover the bottom. There are numerous Hopkins rose nudibranchs in the waters off McAbees Beach, a colorful creature that dots the algae encrusted rocks. Starfish of varying colors and sizes abound. In the shallow water pilings beneath the Cannery Row restaurants, white, green, yellow and purple sea anemones can be found growing to exceedingly large proportions. Here a photographer can expose an entire roll of film in less than five feet of water.

South of Cannery Row, along Ocean View Boulevard, is Lovers Point. Many spectacularly arrayed starfish, various seashells, nudibranchs, rockfish and kelp make this a popular diving area. Here a rocky promontory begins on land and drops off into the water, gently sloping into the depths of Monterey Bay. A short swim off the beach will put the diver in 30 to 40 feet of water among the large granite boulders. These rocks form interesting bowl and wall formations, some that rise up 20 feet. The easy entry from the parking area on the bluff and short swim make Lovers Point a relaxed and interesting dive.

There are many other good dive sites off the Monterey Peninsula, but there are also some areas nearby that deserve mention as well.

Monastery Beach off Highway 1 just south of Carmel is perhaps best known for its large, whipcracking shorebreak. This is where a diver and his equipment

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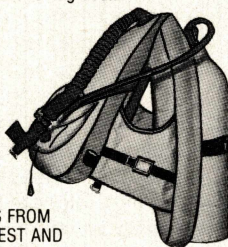
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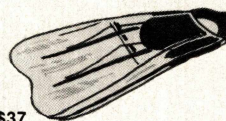
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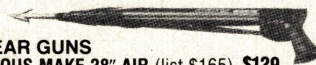
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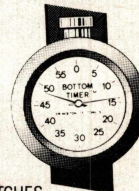
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may go their separate ways and where a large number of diving accidents have taken place. The exit technique named after the area, the "Monastery Crawl," necessitates some humility.

Well, if this place is so nasty that divers crawl on all fours out of the water, why dive Monastery Beach? The answer is that for the properly trained, and when conditions are calm, Monastery makes a spectacular diving experience. The beach itself has a very steep drop-off. Less than six feet offshore the average diver is in water over his head. There are rock formations on the north and south sides of the beach. Both areas offer good hunting, sightseeing and photography. The rocks stairstep down to great depths as Carmel's submarine canyon runs directly into the beach. The canyon itself drops to depths greater than 1,000 feet. Care should be exercised in monitoring depth, buoyancy and bottom time in this area. Spotted rose anemones grow here to large size. There is an evenly divided terrain of kelp, rock and sand. Invertebrate photography is very good when the water is clear.

Parking in this area is directly off of Highway 1, and make sure your vehicle is locked when you are diving. There are restrooms on the beach.

Directly south of Monastery Beach is Point Lobos. This is the highlight spot for anyone diving the Monterey-Carmel area. Point Lobos is a state preserve, and there are strict ordinances regarding the use of the area by divers. There is a \$2 entry fee at the gate. All divers must register with the ranger and present proof of certification (if your C-card does not have your photograph on it you must present your drivers license as well) and have a diving partner. There is no solo diving allowed at Point Lobos, no class activity allowed and no hunting or collecting permitted. Spearguns must be checked in at the gate or the owner will be fined. This is strictly a "take pictures, leave bubbles" only dive.

Also, only a certain number of divers are allowed into Whalers' Cove diving area at a time. On weekends a considerable number of divers sit in their vehicles waiting to be allowed inside the reserve. Weekday diving is uncrowded and quiet. At Whalers' Cove there is only one area for entering and exiting the water, a boat launching ramp. Small boats are allowed to be trailered inside the park. There are restrooms.

The cove itself resembles a woodland lake bordered with high rock walls and cypress trees. Kelp grows inside the cove. The best diving areas are found outside the cove, on the wash rocks jutting out into Carmel Bay and adjacent Bluefish Cove. A short swim will put the

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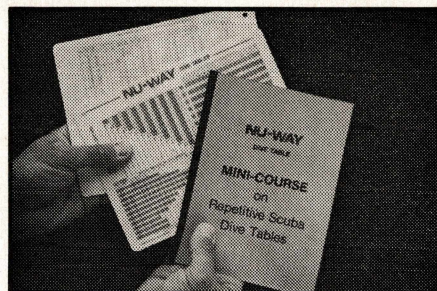
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diver in 40 to 50 feet of water. Deeper water is easily found off the ledges.

The waters off Point Lobos offer the greatest abundance and variety of marine life in the Monterey area, with many species growing to larger than usual size. Rockfish, lingcod, anemones and various brilliantly colored fish inhabit the rocks and crevices along the bottom. Toward the outermost wash rocks a small canyon begins in 50 feet of water with a gradual slope that continues off into the abyss of Carmel Bay. Also in the waters here are caves, caverns and pinnacles. For the photographer and sightseer, Point Lobos is a must.

In all, Monterey offers much for the sport diver. There are two dive shops and several dive boat operations in town. Only one campsite is available, but many reasonably priced motels can be found (reservations are recommended on the weekends). Monterey also offers many diverse activities for non-divers. There is a marine museum and a huge saltwater aquarium is being constructed. Cannery Row and Fisherman's Wharf host a trip into Monterey's rambunctious past, and offer excellent dining and shopping.

BERMUDA BOUNTY

(Continued from Page 116)

number of wrecks discovered continues to grow every year. One could devote a lifetime to diving and exploring these remarkable wrecks.

Is Bermuda limited to wreck diving only? Of course not. It is merely that the awesome number of shipwreck sites overshadows this island's other under-sea attractions. For example, there are the miles of living coral reef which caused these shipwreck disasters. These beautiful formations are lovely for snorkeling, shallow scuba diving and underwater photography.

Bermuda also has quite a number of lovely coral caves and tunnels which beckon inquisitive scuba divers. The fish life around Bermuda is abundant and the coral reefs are laden with all types of tropicals just as you would find at any Caribbean diving destination.

When it comes to above water attractions, visitors are in for a pleasant surprise. Bermuda is perhaps one of the most beautiful resort islands in the world. The hotel facilities and general services are highly sophisticated and vacationing guests are offered tremendously wide choices of activities. Water sports include sailing, fishing, swimming and waterskiing. Motor bike touring, horseback riding, golf and tennis are all very popular. Sight-seeing tours, freeport shopping and gourmet restaurant dining are all part of the Bermuda experience.

If you are searching for a unique type of diving combined with really fine vacation living, Bermuda might very well be your best choice.

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THE LURE OF DIVING



TEXT AND PHOTOGRAPHY BY JOHN VAN NIEL

The cool blue waters of Lake Ontario met the hazy late evening sky to form an almost imperceptible horizon. My diving partner and I quickly got into our gear and slipped into the water. Flicking on our underwater lights, we started off on a new adventure. Although this was a favorite spot for fishing, few divers had ever explored it. Everything pointed toward a rewarding dive. As my light danced along the rocky bottom, a small shadow began to take form. As I neared, my heart beat excitedly. I had found a lure diver's treasure chest; a tackle box full of lures! Responding to my tugs on our safety line, my buddy swam over and congratulated me. Using hand signals, we decided to head back to shore. About halfway in, we hit the jackpot again, this time in the form of an anchor.

Back on shore we tallied up our finds. Altogether we had gotten 58 lures, a tackle box and an anchor—not bad for an hour of fun! Although all of our dives are not as profitable as this one, there are many treasures awaiting the diver.

I have often read articles about divers searching for Spanish galleons or dredging for gold. However, these hobbies require expensive equipment and are limited to specific areas. On the other hand, anyone living near a body of water where fishing occurs can enjoy the fast growing sport of lure diving. It is inexpensive and always a new experience.

Before I continue, there are a few points of which prospective lure divers should be made aware. First, remember that you will be diving in an area that is a favorite for fishermen. Be considerate! Most anglers feel you are scaring away all of the fish. Secondly, you are profiting from someone else's misfortune (the loss of a lure). We have found it best to be discrete about the amount of "treasure" we recover. I'm not suggesting lying, but I do advise diplomacy. Lastly, always be an ethical diver. One year, an irate fisherman wrote a letter to the local newspaper relating an incident he witnessed at Web-


ster Park, a heavily fished pier on Lake Ontario. The fisherman saw two scuba divers remove a section of chain link fence from the water. It looked like a Christmas tree because of all the lures that had snagged on it. The divers stripped it of the lures and tossed it back into the water. Since then, diver/angler relations have been severely strained. Remember, always be ethical.

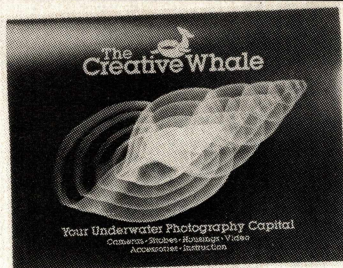
With the fisherman in mind, let's discuss when and where to dive. Obviously, the most heavily fished areas will be the most productive. Piers, mouths of streams or places with rocky bottoms are preferred. The most effective way to find lures is to start the dive at about casting length (average distance of a fisherman's cast) and work your way in.

The best times to dive are when there is the least number of fishermen (ideally none) and the most number of lures. My buddy and I usually dive on a weeknight. That way we disturb the least number of people fishing. Another good time to dive is on a rainy day, when only a few anglers will be out. Of course you usually can't plan for a rainy day, so it helps to have a flexible schedule. Also, have alternate sites in mind in case your first choice is too crowded. The most productive dives are made after a fishing derby or holiday weekend. Also, dives should be made in early spring or late fall to avoid heavy vegetation that will hide lures.

The equipment I use while diving is very inexpensive. Aside from a good underwater light, I use only a set of nail clippers to snip off excess fishing line from lures and a one gallon milk jug with a small slit in it to hold lures, hooks and sinkers. The jug is easy to hold and keeps sharp hooks from tender flesh and expensive scuba gear. Through trial and error I have discovered that the smaller the opening, the less lures will be reclaimed by the waters. Small holes should be cut into the bottom of the jug to allow it to fill with and drain water. Be inventive. My partner uses a rag to attach hooks and has equally good results.

Once you have your new found fishing tackle home, you can clean it up for use, resale or display. Most fishermen are eager to buy used tackle, especially with the rising cost of equipment. Rising cost is a good argument for using the lures yourself. I even know of one diver who displays his finds on his den walls. Slightly rusted hooks and lures can be rejuvenated with some muriatic acid. Eye protection and rubber gloves should be worn while working with this or any other acid. A buffing wheel can make old lures like new, while some new paint can hide chips or scratches. Sinkers can be used as is or melted down to make your own weights for diving.

Lure diving can mean a full tackle box for the diver who also enjoys fishing or a little extra cash. Either way it is profitable and, more importantly, enjoyable. 



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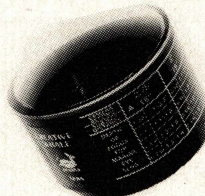
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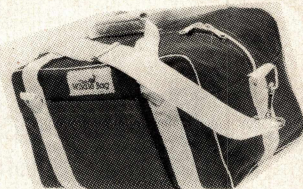
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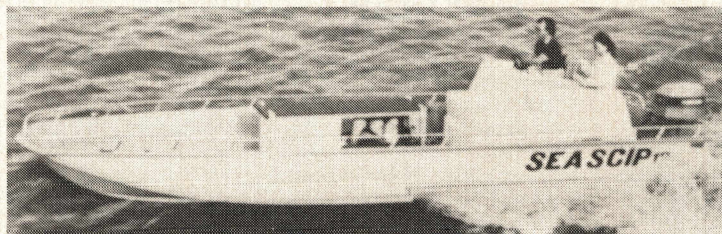


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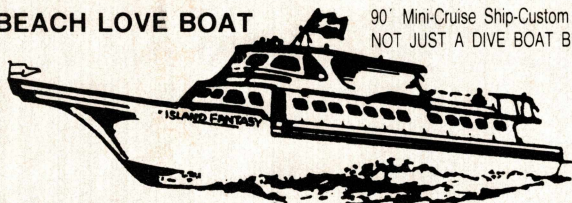
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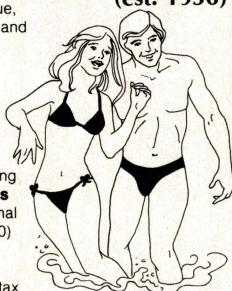
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Jean-Michel Cousteau, son of ocean explorer Jacques Cousteau and executive vice-president of The Cousteau Society, will participate in both sessions of the 1984 Caribbean adventure. The expeditions in the Caribbean will be directed by Dr. Richard C. Murphy, marine biologist and underwater photographer (who also directs scientific and educational activities of The Cousteau Society) and others.

Application materials may be requested from The Cousteau Society, 930 W. 21st Street, Norfolk, VA 23517 or by calling the Norfolk operational headquarters at (804) 627-1144. West Coast residents may contact The Cousteau Society's Los Angeles office at (213) 656-4422.

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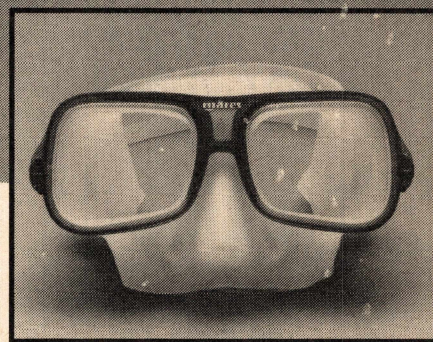
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If you asked an experienced diver what features he or she would want in a dive mask the answer might be, "comfort, a good seal, wide vision, sturdy materials, low volume and good looks." If you added easy adjustment and easily interchangeable lenses to this list you would have described the Mares Prima.

The Prima mask (distributed in the U.S. by SeaQuest) has a soft, hypoallergenic silicone rubber skirt available in either clear or black. This material is resistant to damage by ultraviolet light and ozone. The skirt is very pliable and has such a smooth, gradual taper that its single seal will accommodate a wide variety of face shapes and sizes comfortably. The skirt tapers out to accommodate dual, five millimeter thick, tempered glass lenses. These are positioned close to the face for wide vision and are open enough at the


bridge of the nose to allow gloved fingertips to reach the nose easily when clearing the ears. The mask is low volume and easy to clear underwater.

The lenses are held in the mask by a tough, yet flexible methacrylate frame (blue for the clear skirt, black for the black). The unique feature of this frame is that it is closed on the lenses by two snap-over clamps. Thus, the lenses can be taken out at any time for cleaning. This also allows the diver to substitute optical lenses from the Mares Santiago system into the Prima. These are precision ground and available in 0.5 diopter increments from - 1.5 to - 10.0.

The Prima's strap is stretchy and is perforated by three long slots which give it some of the holding stability of a split strap while retaining the strength of a single band. Not only does the band itself

conform to the shape of the diver's head, but its buckles swivel, allowing the band to be angled comfortably.

The strap buckles are made of the same material as the mask frame and thus can't corrode. Their one piece design can't jam and they are set up so that even while the mask is being worn, a light tug on one end of the strap pulls it farther through the buckle, tightening it. In the reverse direction the strap binds against itself and thus can't loosen while the diver is wearing it. The ends of the strap have ridges which prevent it from slipping completely out of the buckles.

The whole combination of Prima features create a mask that is comfortable, functional and good looking. It sells for \$40 in clear and \$37 in black. The optical lenses are extra. Check out the Prima mask at your SeaQuest dealer. 

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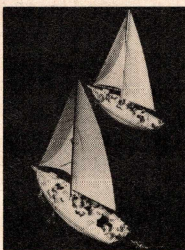


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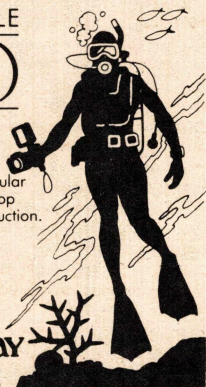
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UDT's

Buddy Bag
TEXT AND PHOTOGRAPHY BY GERI MURPHY

A Mobile Dive Gear Carrier That Makes Life Easier

One look at this gear bag and you can't help asking yourself, "why didn't somebody think of this before now?" U.D.T.'s new Tag-Along Dive Buddy cart is one of those products that professional marketers call a "natural." It sells itself on looks alone.

The Buddy Bag has been developed and produced by Underwater Design Technology (U.D.T.), a small diving equipment manufacturer in Texas. The genius behind this unique invention is Roland Lange, president of U.D.T. Roland is perhaps best known for his previous invention, the Lange Tables.

Lange's latest invention is absolutely inspirational. He has taken the standard dive gear bag and made it portable, transportable and mobile. This has been accomplished by simply building a light-weight PVC tube rack around the bag

and adding a set of wheels. Don't, however, let the simplicity of the idea deceive you—Lange has incorporated quite a number of clever ideas into it.

Lange's Buddy Bag starts with a fairly standard, roomy dive gear bag made of rugged Cordura fabric. He has added a large outside accessory pouch on one side. The ends of the bag have nylon

The Buddy Bag system includes a light-weight PVC tube rack, with a set of wheels, supporting a roomy gear bag made of tough Cordura nylon fabric.



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UDT BUDDY BAG

mesh breathing panels which allow semi-wet equipment to continue drying while being transported. The big difference with the Lange bag is that the bottom is fitted with nylon web straps and Velcro® which allow the bag to be securely fastened to the frame of the wheelie cart.

The one clever addition to the gear bag which cannot be seen from the outside is a continuous loop PVC tube frame which keeps the bag from collapsing when empty. The Lange bag is an absolute dream to pack and unpack because of this. Incidentally, the frame can be disassembled for storage or packing.

Now we get to the good part. The true magic of the Lange Buddy Bag is the PVC frame/cart. Constructed of 1 inch diameter PVC tubing, this frame goes the full length of the bag bottom and then wraps around one end. It allows the bag to sit in a horizontal position or to stand up on end. One end of the rack is fitted with a piece of horizontal PVC tube which contains an aluminum axle and a wheel at each end. The wheels themselves are 5 1/4 inch diameter, solid rubber with a plastic hub. They are held onto the axle by large stainless steel snap clips. The entire wheel assembly can be immersed in salt water without danger of rusting or corrosion. The cart frame is fitted with nylon webbing straps and a PVC tube handle which allow a diver to tow it.

But wait, we are not done yet! The frame of the cart also doubles as a back-pack frame for carrying the bag when it is impossible to tow. Two large shoulder straps are fitted from the bottom of the axle to the top of the rack and the left strap has a quick release buckle. The two wheels and axle can be quickly disassembled in seconds and stowed inside the bag for safe keeping.

The versatility of the Lange Buddy Bag is remarkable. It can be towed behind the diver while crossing a parking lot or an air terminal. The large wheels roll smoothly and negotiate bumps and sidewalk curbs easily. It is the ideal traveling companion for any diver planning either a short trip to the ocean or a dive vacation overseas.

Because the wheels and axle are easily removable you can ship the Buddy Bag like normal airline luggage. We tested this by checking the bag on a cross country trip. It traveled well, even surviving the luggage carousel at the airport.

At a retail price of \$118.90, the Lange Buddy Bag is a real winner. In fact, I suspect the big problem will be obtaining one before the supply is sold out. If you already have a gear bag, the cart alone is available for \$59.95.

For more information about the Lange Bag, see your local dive store or write to: U.D.T. Inc., P.O. Box 1624, Nederland, TX 77627.

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Advertising rates: \$129.00 for three consecutive ads, \$222.00 for six consecutive ads, \$336.00 for a full year. DEADLINE: 28th of 3rd month prior to publication. PAYMENT MUST ACCOMPANY COPY. Send all material to: Diver's Directory, c/o Direct Response Advertising, P.O. Box 69910, Los Angeles, CA 90069.

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LADY CYANA DIVERS P.O. Box 1157, Islamorada, FL 33036 MM 85.9 Daily reef trips aboard our 40' custom dive boat. Rentals, air, sales, service, instruction, group rates, packages.	305/664-8717
LOOE KEY REEF RESORT & MARINA P.O. Box 509G, Ramrod Key, FL 33042 MM.27 Singles, doubles, tv, pool, jacuzzi, restaurant, ramp, dockage. Compl. dive shop, instr., USCG cert. custom dive boat, grp. rates.	305/872-2215
PENNEKAMP DIVING HEADQUARTERS 99696 Overseas Hwy., Unit 1, Key Largo, FL 33037 Daily reef trips, rmtls., air, sls., instr., repairs, grp. rates. PADI training facility. Nicest boat in Keys. We beat any deal.	305/451-1151
PENNEKAMP STATE PARK CONCESSION Box 13M, MM 102.5, Key Largo, FL 33037 The only dive shop located directly in Pennekamp. Free brochure, send 50¢ for reef chart.	305/451-1621 800/432-2871
QUIESCENCE DIVING SERVICES, INC. P.O. Box N-13, Key Largo, FL 33037, MM. 103.5 Personalized charters in Pennekamp, only 6 divers per boat. Instruction: Basic: Divemaster.	305/451-2440
ROCK REEF RESORT P.O. Box 73, Key Largo, FL 33037 MM. 98 Divers Paradise, spacious grounds, beach, jacuzzi, comfortable accommodations and comfortable prices.	305/852-2401
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SEA DWELLERS SPORTS CENTER 99850 Overseas Hwy., Key Largo, FL 33037 Dive and snorkel Pennekamp Park. Special weekday rates.	305/451-3640
SEA TRAIL HOTEL Rt. 5, P.O. Box 91, Key Largo, FL 33037, MM 98.5 Cable TV, air conditioned, refrigerator, budget rates, 10% discount. Advanced reservations May through Nov.	305/852-8001
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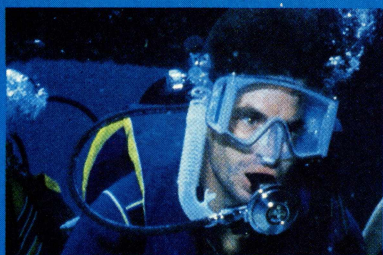
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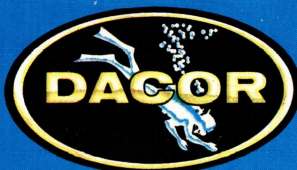
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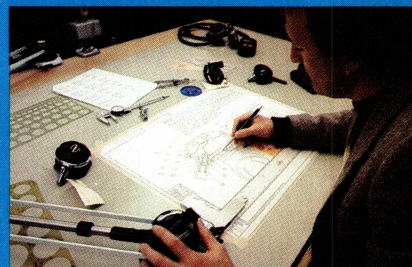
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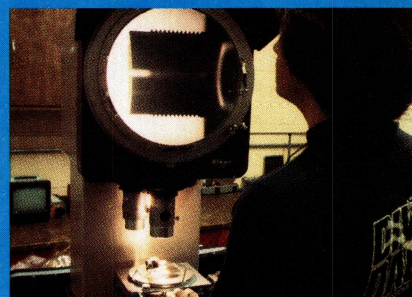
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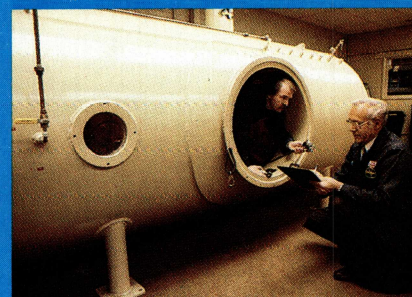
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